

NEWSPACE MARKET · SECTOR CATALOGUE

Radios & Transceivers

Every unit we list in this sector — specifications, manufacturers and where to ask for a quote. Compiled from the live NewSpace Market catalogue.

217

PRODUCTS

77

MANUFACTURERS

27

COUNTRIES

93

WITH DATASHEETS

newspacemarket.com/catalogues/radios-transceivers/

as of 2 September 2026

What is inside

This catalogue lists **217 radios & transceivers products** offered by **77 manufacturers** across **27 countries**. Of those, 93 carry a manufacturer datasheet and 4 publish a price; the rest are quoted on request — normal in this market, where configuration drives cost.

Entries are grouped alphabetically by manufacturer. Every product links back to its page on newspacemarket.com, where you will find the full specification, the datasheet and a quote form that reaches the manufacturer directly.

Compiled 2 September 2026 from the live catalogue. Specifications are as published by the manufacturers; we normalise units but do not re-measure. Where a figure looked implausible it was left out rather than guessed.

Manufacturers by country

United States 22	Denmark 5	Japan 4	France 4	Germany 4	Spain 3	Italy 3	Ireland 3
Russia 3	United Kingdom 3	Sweden 2	India 2	New Zealand 2	Singapore 1	Brazil 1	
Switzerland 1	Bulgaria 1	China 1	Netherlands 1	Lithuania 1	Poland 1	South Africa 1	
Turkey 1	Czech Republic 1	Slovakia 1	Portugal 1	Canada 1			

All products at a glance

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
5G NB-IoT NTN NodeB Software	Gatehouse Satcom	Denmark	–	on request
5G NB-IoT NTN UE Software	Gatehouse Satcom	Denmark	–	on request
5G New Radio for Non-Terrestrial Networks (5G NR NTN)	Gatehouse Satcom	Denmark	–	on request
A74 Series S-Band Telemetry Transmitter (STX)	ADDNICS Corporation	Japan	Frequency band: S-band (~2.2–2.3 GHz)	on request
A88 Series S-Band Receiver (A88 SRX)	ADDNICS Corporation	Japan	Frequency band: S-band (customer-specified at order)	on request
A88 Series S-Band Telemetry Transmitter (STX)	ADDNICS Corporation	Japan	Frequency: 2250–2300 MHz (S-band)	on request
A88 Series X-Band Telemetry Transmitter (XTX)	ADDNICS Corporation	Japan	Frequency band: X-band (~8–9 GHz)	on request
AAC Clyde Space PULSAR-XTX X-Band Transmitter	AAC Clyde Space	Sweden	Operating temperature: -25°C to +61°C	on request
AAC SpaceQuest RX-2000 S-Band Receiver	AAC Clyde Space	Sweden	Frequency: 2000–2400 MHz	on request
ADRS1000 Software Defined Radio Module	Addvalue Technologies	Singapore	Platform: Xilinx Zynq UltraScale+ RFSoc	on request
Akash Satellite Radio	Akash Systems	United States	Downlink data rate: 700 Mbps, extendable up to 1.4 Gbps	on request
Astranis Vanguard	Astranis Space Technologies	United States	System type: Satellite-enabled MANET (Mobile Ad-Hoc Network)	on request
AX-60/AX-61 IP Modem	WORK Microwave	Germany	Modulations: up to 256APSK	on request
AX-80 Wideband Modem	WORK Microwave	Germany	Symbol rates: up to 500 Msps	on request
BGAN Protocol Stack	Gatehouse Satcom	Denmark	–	on request
CANSAT Transmitter Module	StenSat Group LLC	United States	Frequency bands: 2m, 70 cm, 916 MHz	on request
CB503 High-Power Tunable Bandpass Filter	Teledyne Defence & Space	United Kingdom	Model: CB503	on request
Command Exciters (ECEC Series)	Emhiser Research	United States	–	on request
Command Receiver (CMDRX)	NEC Space Technologies	Japan	–	on request
Command Receiver Decoders (ERD / ERDC Series)	Emhiser Research	United States	–	on request
Command Receivers (ECRC / ETRC Series)	Emhiser Research	United States	–	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Command Transmitter Encoders (ECTC Series)	Emhiser Research	United States	–	on request
Command Transmitters (ETT / ETTC Series)	Emhiser Research	United States	–	on request
Compact Frequency Converters and Receivers for FSS/BSS Payloads	Beyond Gravity (ex-RUAG Space)	Switzerland	Frequency plans: C to C, C to Ku, Ku to C, Ku to Ku, K to Ku band	on request
ConDR Configurable Digital Radio	General Dynamics Mission Systems	United States	–	on request
Cormorant UHF/VHF Transceiver	Needronix	Poland	Frequency bands: UHF / VHF	on request
Cubesat UHF/VHF Radio	Aphelion Orbitals	United States	Mass: 72 g	on request
Custom Amplifiers (EP Custom Series)	Emhiser Research	United States	Power: 50 W	on request
DAMA/IW Protocol Component	Gatehouse Satcom	Denmark	–	on request
DCM3110 Digital Transceiver	Mercury Systems	United States	–	on request
DCM3220 Digital Transceiver	Mercury Systems	United States	FPGA: Virtex® Ultrascale+™ VU7P	on request
DCM6111 Digital Transceiver	Mercury Systems	United States	–	on request
DCM6112 Microwave Transceiver	Mercury Systems	United States	ADC channels: Four	on request
DCM6212 Digital Transceiver	Mercury Systems	United States	Data rate: 6.4 GSPS	on request
DR068-M1 Digitising Receiver	Teledyne Defence & Space	United Kingdom	Model: DR068-M1	on request
ECHO Software Defined Radio (SDR)	TALOS GmbH	Germany	Type: Software-defined radio (SDR)	on request
ESTI-T2E1-SR Transmitter	Emhiser Research	United States	Model number: ESTI-T2E1-SR	on request
EVTC-09G1D103-05	Emhiser Research	United States	Model: EVTC-09G1D103-05	on request
EW15-NG – S/S-Band Transceiver – CCSDS	Syrlinks	France	Name: EW15-NG - S/S-Band Transceiver - CCSDS	on request
EW27 – X-Band Transmitter	Syrlinks	France	Subsystem: Telecom Subsystem	on request
EW27 + OPT27-SRX – X/S Transceiver	Syrlinks	France	Name: EW27 + OPT27-SRX - X/S Transceiver	on request
EW27 X-Band Transmitter	Syrlinks	France	Frequency: X-Band (8–8.5 GHz downlink)	on request
EW28 – X-Band Transmitter	Syrlinks	France	Name: EW28 - X-Band Transmitter	on request
EW31 – S/S Band Transponder	Syrlinks	France	Subsystem: Telecom Subsystem	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
EWC31-NG S/S-Band Transponder	Syrlinks	France	Frequency: S-Band (2025–2290 MHz)	on request
EWC34 – Ultra High Speed X-Band Transmitter	Syrlinks	France	Subsystem: Telecom Subsystem	on request
ExseedSat-1 Amateur Radio CubeSat (VO-96)	Satellize	India	Form factor: 1U CubeSat (10 × 10 × 10 cm)	on request
FSK Transmitters (EFT Series)	Emhiser Research	United States	Power: 2, 5/10/20 Watts Minimum	on request
GAMALINK Inter-Satellite Link Radio	TEKEVER	Portugal	Type: Software-defined S-band ISL radio	on request
GAUSS RADIO UHF – 2W/5W	GAUSS Srl	Italy	Configurations: 2 W (low-power) and 5 W (high-power) versions	on request
GomSpace TR600 RF Module	GomSpace	Denmark	Tx power linearity range: -55 to -20 dB	on request
High-speed radio line control unit	SPUTNIX	Russia	Power supply: 22...33 V, galvanic isolation 500 V	on request
High-speed X-band Downlink Transmitter	Glavkosmos	Russia	Purpose: It provides reliable high throughput communication channel from th...	on request
HIRCOM CubeSat UHF Transceiver	HIRCOM	France	Mass: 85 g	on request
HOCSAI Multi-Protocol Optical Modem	WARPSPACE Inc.	Japan	Product type: Multi-protocol optical communications modem (satellite-instal...	on request
IMT X-Band Transponder	IMT (Ingegneria Marketing Technologies)	–	Uplink frequency: 7145-7190 MHz (Cat B), 7145-7235 MHz (Cat A opt)	on request
Intersatellite Optical Communication Terminal	Glavkosmos	Russia	Purpose: Providing communications in the constellation of satellites on LEO...	on request
Intersatellite optical communication terminal 2	Glavkosmos	Russia	Design life: 7 years	on request
IoT System Dedicated Communication Module	Guodian Gaoke (Tianqi Satellite)	China	Receiving sensitivity: -125 dBm~-133 dBm	on request
IQ Spacecom X Link-X	IQ Spacecom	–	X band tx operation: 8.025-8.400 GHz	on request
K Band Transmitter	Paradigma Technologies	Germany	RF output frequency: 17.8 – 20.2 GHz	on request
K/Ka-Band SATCOM Transceiver Module KKa-TR-DL-1929	Arralis	Ireland	Tx RF frequency: 17-21 GHz	on request
K/Ka-Band Single Channel Transceiver TR1000	ReliaSat	United Kingdom	Tx frequency: 17-21 GHz	on request
Ka Band Receiver with UHF Transceiver	Paradigma Technologies	Germany	KA band RF input: 26.5 – 30 GHz	on request
Ka-band Compact Frequency Receiver and Converter	Beyond Gravity (ex-RUAG Space)	Switzerland	Band: Ka-band payloads	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Ka-Band Frequency Agile Transceiver TR400	ReliaSat	United Kingdom	Tx frequency: 17.3-20.7 GHz	on request
Ka-Band Integrated Transceiver Module UDC400	ReliaSat	United Kingdom	Tx output frequency: 17-21 GHz	on request
Ka-band Low Noise Amplifier (LNA)	Beyond Gravity (ex-RUAG Space)	Switzerland	Frequency coverage: 27.5 to 31 GHz (full Ka-band)	on request
Ka-Band Satellite Transponder TR500	ReliaSat	United Kingdom	Tx frequency: 17-21 GHz	on request
LBR-2195A L-Band Satellite Beacon Receiver	AVCOM of Virginia	United States	Frequency range: 950–2150 MHz	on request
LE016-R5 QO-100 Full-Duplex Transverter System	Leijenaar Electronics	Netherlands	Up-converter input frequency: 435 MHz (N-connector)	\$1 200
LinkStar Radio System	sci_Zone / QuickSAT	United States	Interface: Web browser (laptop/tablet)	on request
Loutch Data Relay Satellite	ISS Reshetnev	Russia	–	on request
LYNX X-band / Ka-band Transmitter	NewSpace Systems (NSS)	South Africa	Data link compliance: CCSDS 131.3 Compliant	on request
Messenger	OutThere Astronautics	New Zealand	–	on request
Murgas	Spacemanic s.r.o.	Slovakia	Operating temperature: -40°C to +85°C	on request
N-XONOS – X-Band Transmitter – High Data Rate	Syrlinks	France	Name: N-XONOS - X-Band Transmitter - High Data Rate	on request
NanoCom AX100	GomSpace	Denmark	Frequency Options: UHF Low: 395-405 MHz, UHF: 430-440 MHz	on request
NanoCom AX100 S-Band Transceiver	GomSpace	Denmark	–	on request
NanoCom AX2150	GomSpace	Denmark	Highlights: successful flight records since 2014	on request
NanoCom AX2150 S-Band Transceiver	GomSpace	Denmark	Band: S-band	on request
NanoCom SDR MK3	GomSpace	Denmark	SoC: Xilinx Zynq 7030/7045 Programmable SoC	on request
NanoCom SDR MK3 with 1xTR600	GomSpace	Denmark	Mass total: 272 g	on request
NanoCom SR2000	GomSpace	Denmark	Layer-3 bandwidth: up to 6 Mbps (FDD)	on request
NanoCom TR-600	GomSpace	Denmark	Transceiver: AD9361	on request
Nanosatellite Transceiver	Glavkosmos	Russia	Purpose: System designed for transmitting telemetry information and receivi...	on request
NewSpace S-Band Transceiver	Rakon Limited	New Zealand	Frequency band: S-band	on request
NSR-SDR-K/Ka-HDR-DVB	Vulcan Wireless	United States	Frequency band: 20-21.2 GHz Transmitter / 30-31 GHz Receiver (SDA Tranche)	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
NSR-SDR-MUOS	Vulcan Wireless	United States	Form factor: <1/2U CubeSat	on request
NSR-SDR-S/S	Vulcan Wireless	United States	Form factor: 1/3U CubeSat	on request
NSR-SDR-X/S	Vulcan Wireless	United States	Frequency band: X-band	on request
NSR-SDR-X/S HP	Vulcan Wireless	United States	Frequency bands: X/S-band	on request
ODALCOM	Emxys	Spain	Tx rate: 500 Mbps	on request
ODALISS TTC	Emxys	Spain	Cpu: 168 MHz ARM® 32-bit Cortex®-M4, STM32 processor unit	on request
Optical Communication CubeSat	Alya Space	Brazil	Technology: Miniaturized laser optical ISL for CubeSats (3U–6U)	on request
Optical Communication Systems	ALTER Technology	Spain	Data rates (per channel): 28 to 56 Gb/s	on request
Passive Nanosatellite Tracking and Telemetry RF Tag	Stellar Exploration, Inc.	United States	Modulation: Backscatter modulation from space radars	on request
piAIS/FM (Flight Model)	SkyFox Labs s.r.o.	Czech Republic	Power Requirement: 3.0-3.6 V @ 65 mA (210 mW typical)	on request
Polaris LoRa	Satlab A/S	Denmark	Frequency coverage: 865.000 to 870.000 MHz	on request
Power Dividers, Combiners, Hybrids & Diplexers	Haigh Farr	United States	Frequency: UHF to X-Band	on request
Pulsar Constellation (PNT Service)	Xona Space Systems	United States	Orbit type: Low Earth Orbit (LEO), sun-synchronous	on request
Pulsar-UTRX	AAC Clyde Space	Sweden	Operating temperature: -25 to +61 C	on request
Pulsar-VUTRX	AAC Clyde Space	Sweden	Operating temperature: -25 to +61 C	on request
Q Band Transmitter	Paradigma Technologies	Germany	RF output frequency: 37.5 – 42.5 GHz	on request
Q8J SDR Daughterboard	Xiphos Technologies	Canada	RF transceiver: Analog Devices AD9361 RF agile transceiver	on request
QR026 High Performance Wideband Receiver	Teledyne Defence & Space	United Kingdom	Model: QR026	on request
QR035 Multi-Channel High Performance Receiver	Teledyne Defence & Space	United Kingdom	Model: QR035	on request
QubeFlex CubeSat/SmallSat Transceiver/Modem	Teledyne Defence & Space	United Kingdom	Base modem tx/rx data rate: 2.4 kbps to 2.048 Mbps	on request
R6 VDES Space Payload	Saab Space	Sweden	Payload type: Space-hardened VDES (VHF Data Exchange System) transponder	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Radio Complex set RK-SM	Glavkosmos	Russia	Purpose: Designed to work as part of the on-board radio systems of the spac...	on request
RADIOSAT K/Ka-Band Transponder	PicoSaTs	Italy	Downlink: 17.8 - 20.2 GHz	on request
RADIOSAT Ka-Band Datalink Transmitter	PicoSaTs	Italy	Downlink: 25.5 - 27 GHz	on request
RADIOSAT Ku-Band Transponder	PicoSaTs	Italy	Downlink: 10.7 - 12.75 GHz	on request
RADIOSAT Software Defined Radio	PicoSaTs	Italy	Channels: 2x 1 GHz IBW Rx channels, 2x 1 GHz IBW Tx channels	on request
RFX-400	Tiger Innovations, Inc.	United States	Frequency range: 387 - 464 MHz (90 usec settling time)	on request
S-band TM/TC radio link	SPUTNIX	Russia	Dimensions: 117 x 111 x 48 (without fasteners and diplexer)	on request
S-Band TM/TC Transceiver	Azista Space (Azista Aerospace)	India	Frequency band: S-Band	on request
S-band Transceiver	EnduroSat	Bulgaria	Frequency range: 8000 - 8400 MHz	on request
S-BAND TRANSCEIVER	Alén Space	Spain	Modulation: BPSK	on request
S-Band Transceiver SRS-3	NanoAvionics	Lithuania	Type: Full-duplex S-band TM/TC transceiver	on request
S-Band Transceiver SRS-4	NanoAvionics	Lithuania	Type: Full-duplex S-band high-speed transceiver	on request
S-Band Transmitter for Pico and Nanosatellites	IQ Spacecom	–	Manufacturer: IQ Spacecom	€6 500
S703 Radiation Tolerant MIL-STD-1553 PMC Card	Aitech Systems	United States	Protocol: MIL-STD-1553B (STANAG 3838 compliant)	on request
S910 Rugged 3U CompactPCI MIL-STD-1553B Board	Aitech Systems	United States	Mil-std-1553b channels: 4 total (2 base + 2 via S911 mezzanine), dual redun...	on request
SA002 Adaptive Filter Module / Switch Multiplexer	Teledyne Defence & Space	United Kingdom	Model: SA002	on request
SatCOM UHF Digital Radio Transceiver	NanoAvionics	Lithuania	Type: UHF digital radio transceiver	on request
Satellite IoT Communication Module	Guodian Gaoke (Tianqi Satellite)	China	Receiving sensitivity: -125 dBm±1 dBm	on request
Satellite IoT Dedicated Communication Module	Guodian Gaoke (Tianqi Satellite)	China	Operating frequency band: UHF	on request
Satellite-mounted X-band transmitter (MTX-540X)	Meisei Electric	Japan	Data rate: 538 Mbps	on request
Satlab Polaris ADS-B	Satlab A/S	Denmark	Frequency band: 1090 MHz	on request
Satlab VTRX	Satlab A/S	Denmark	Parameter: Specification	on request
SBS2-2150E Embedded Satellite Beacon Receiver Board	AVCOM of Virginia	United States	Frequency range: 950–2150 MHz	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
SCR-104 S-Band Software-defined Compact Radio	Innoflight	United States	Uplink frequency: L-Band / S-Band	on request
SCR-106 / SCR-106HDR X-Band Software-defined Compact Radio	Innoflight	United States	Uplink frequency: L-Band / S-Band	on request
SCR-208 Medusa Ka-Band Software-defined Compact Radio	Innoflight	United States	Uplink frequency: Ka-Band	on request
SDR-1001	CesiumAstro	United States	TRL: 9	on request
SDR-P4	Space Inventor ApS	Denmark	Msrp: €35,000	\$35 000
Software Defined Radio (MK2)	GomSpace	Denmark	FPGA module: Xilinx Synq 7030 Programmable SoC	on request
Software Defined Radio (SDR)	Plan-S (Connecta)	Turkey	Frequency range: 70 MHz - 6 GHz	on request
Solid State Power Amplifier (SSPA)	NEC Space Technologies	Japan	–	on request
Solid State Power Amplifier (SSPA)	Teledyne Defence & Space	United Kingdom	Frequency range: UHF to Ku-band	on request
Space-Grade RF Microwave Filters	Smiths Interconnect - Space	United Kingdom	Types: Bandpass, lowpass, bandstop, notch	on request
SpaceLink Civil Space Data Relay Service	SpaceLink	United States	–	on request
Splitter 3-3/MLS	Glavkosmos	Russia	Operating frequency band: 25270–25410 MHz, 25910–26050 MHz, 26550–26690 MHz	on request
Splitter 6-3/K	Glavkosmos	Russia	Operating frequency band: 20150–21250 MHz	on request
SRS-3 Full-duplex S-band Transceiver	Satlab A/S	Denmark	Tx frequency range: 2200–2290 MHz	on request
SRS-4	Satlab A/S	Denmark	Transmitter frequency: 2200 to 2290 MHz	on request
Stensat radio beacon	StenSat Group LLC	United States	Frequency bands: 2m, 70 cm	on request
STX3 OEM Satellite Modem	Globalstar (C-3 next-gen)	United States	Dimensions: 28.70 x 20.57 mm	on request
SWIFT Software-Defined Radio Family	Tethers Unlimited, Inc. (AMERGINT)	United States	Networks: NEN/DSN: CCSDS TC/TM, Raw bit-sync; USN: SLGS, CCSDS; AFSCN: SGLS...	on request
SWIFT® Radios and RAVEN – SDR	Tethers Unlimited, Inc. (AMERGINT)	United States	Flight heritage: Yes	on request
SXC-UHF-02 UHF Transceiver	SPUTNIX	Russia	Type: UHF transceiver (PC104 board)	on request
Syrlinks EWC36 L-band transmitter	Syrlinks	France	Life-time LEO missions: 7.5 years	on request
TA1007	Triad RF Systems	United States	Frequency low: 500 MHz	on request
TA1017	Triad RF Systems	United States	Frequency low: 1700 MHz	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
TA1029	Triad RF Systems	United States	Frequency low: 6400 MHz	on request
TA1049	Triad RF Systems	United States	Model: TA1049	on request
TA1140	Triad RF Systems	United States	Frequency low: 400 MHz	on request
TA1160	Triad RF Systems	United States	Frequency low: 5500 MHz	on request
TA1216	Triad RF Systems	United States	Frequency low: 300 MHz	on request
TA4010	Triad RF Systems	United States	Frequency low: 4400 MHz	on request
Telemetry Transmitters (ETT Series)	Emhiser Research	United States	Output Power: 5 Watt	on request
TERABIX	Mbryonics	Ireland	Format: 10GBASE Ethernet	on request
Terma SPECTRA – SDR TT&C modem	Terma	Denmark	–	on request
Tethered Black Box Satellite Transmitter (TBSAT)	Azista Space (Azista Aerospace)	India	Type: Tethered Black Box Satellite Transmitter	on request
THPR1060	Triad RF Systems	United States	Radio core: Silvus	on request
THPR1060 Triad High Power Radio	Triad RF Systems	United States	Model: THPR1060	on request
THPR1070	Triad RF Systems	United States	Radio core: Silvus	on request
THPR1076	Triad RF Systems	United States	Radio core: DTC	on request
THPR1080	Triad RF Systems	United States	Radio core: Silvus	on request
Tianqi LEO IoT Constellation	Guodian Gaoke (Tianqi Satellite)	China	Constellation size: 38 satellites	on request
TOTEM — Software Defined Radio	Alén Space	Spain	TRL: TRL-9 (Flight Heritage)	on request
TOTEM nanosatellite SDR platform	Alén Space	Spain	Flight heritage: since 2018	on request
TREVO	Alén Space	Spain	Socs based on: Zynq UltraScale+ family	on request
TREVO — Modular High-Performance SDR	Alén Space	Spain	TRL: TRL-9 (Flight Heritage)	on request
Triad THPR1060 Range Enhanced Silvus StreamCaster Radio System	Triad RF Systems	United States	Operating frequency: 2200 - 2500 MHz	on request
TRX-U	AAC Clyde Space	Sweden	Tx frequency range: 400-450 MHz (UHF)	on request
TRX-U UHF Satellite Transceiver	AAC SpaceQuest (AAC Clyde Space subsidiary)	United States	Frequency band: UHF	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
TTRM1116	Triad RF Systems	United States	Frequency low: 1200 MHz	on request
TTRM1116 Bi-Directional Amplifier	Triad RF Systems	United States	Model: TTRM1116	on request
TTRM1123D	Triad RF Systems	United States	Frequency low: 2200 MHz	on request
TTRM1210-D01 Bi-Directional Amplifier	Triad RF Systems	United States	Model: TTRM1210	on request
TTRM2002	Triad RF Systems	United States	Frequency low: 2200 MHz	on request
TTRM2002 2200-2500 MHz 10 W Bi-Directional Amplifier	Triad RF Systems	United States	Model: TTRM2002	on request
TTRM2005DR	Triad RF Systems	United States	Model: TTRM2005DR	on request
TTRM4005QR	Triad RF Systems	United States	Frequency low: 4400 MHz	on request
TTRM4302 Bi-Directional Amplifier	Triad RF Systems	United States	Model: TTRM4302	on request
TTRM4310	Triad RF Systems	United States	Frequency low: 5000 MHz	on request
TTRM4402R	Triad RF Systems	United States	Frequency low: 5000 MHz	on request
TTRM4510	Triad RF Systems	United States	Frequency low: 5300 MHz	on request
UHF TM/TC radio link	SPUTNIX	Russia	Dimensions: 115 x 66 x 19 (without fasteners) mm	on request
UHF Transceiver	EnduroSat	Bulgaria	Frequency range: 400-403 or 435-438 MHz	on request
UHF Transceiver	Glavkosmos	Russia	Purpose: UHF TT&C data receiving and transmitting for nanosatellites	on request
UHF transceiver	SPUTNIX	Russia	Model: SPUTNIX SXC-UHF-02	on request
UHF-Band Telemetry Transmitter (UHF Com)	ADDNICS Corporation	Japan	Frequency: 430–440 MHz (adjustable)	on request
UHF/VHF Transceiver	Pyxis Space	Germany	Dimensions: 6 × 30 × 62 mm ³	€6 000
UST-LITE RADIO	Argotec Srl	Italy	–	on request
VDE-SAT Payload for Small Satellite Platforms	MBI Group	–	Standard: VDE-SAT (VHF Data Exchange - Satellite)	on request
VialiteHD Fiber Optic RF-over-Fiber Links	EUROSATCOM	France	6ghz mil-aero module frequency: 10 MHz to 6 GHz	on request
VILSA SDR — Software Defined Radio Payload	Anywaves	France	Frequency range: 0.3–6 GHz	on request
VILSA Software Defined Radio	Anywaves	France	In-flight reconfigurability: Yes, via Zynq® UltraScale+ SoC	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
VILSA XDL X-Band Downlink Transmitter	Anywaves	France	Frequency band: X-Band – 8.025 to 8.400 GHz	on request
W-Band Receiver Module (WB-RX-9296-LN)	celtonn	Ireland	RF input: 91–97 GHz	on request
W-Band Transmitter Module	celtonn	Ireland	RF output: 91–97 GHz	on request
Wideband Telemetry Transmitters (EWT Series)	Emhiser Research	United States	–	on request
X-band High Data Rate Transmitter	SPUTNIX	Russia	Mass: 15 kg	on request
X-Band SATCOM Transceiver X-TR-DL-78	Arralis	Ireland	Tx frequency: 8-8.5 GHz	on request
X-band SDR	EnduroSat	Bulgaria	Frequency range (Tx): 2200 to 2290 MHz (commercial)	on request
X-Band TM Transmitter	Azista Space (Azista Aerospace)	India	Frequency band: X-Band	on request
X-Band Transmitter	Plan-S (Connecta)	Turkey	Frequency range: 8025 – 8400 MHz	on request
X-band Transmitter Designed for Lunar Spacecraft	Glavkosmos	Russia	Purpose: The data transmission to ground stations from: - lunar landers; - ...	on request
X-band Transmitter for Cubesat	Glavkosmos	Russia	Purpose: It provides reliable high throughput communication channel from th...	on request
X-Band TT&C Transponder (X-TRP)	ADDNICS Corporation	Japan	Frequency band: X-band (customer-specified at order)	on request
X/S-Band High-Speed LEO Radio	Akash Systems	United States	Data Rate: 650 Mbps	on request
XLink SDR Transceiver	IQ Spacecom	–	Flight proven design: TRL 9	on request
XONOS – X-Band High-Data-Rate Transmitter	Syrlinks	France	Subsystem: Telecom Subsystem	on request
XTX-DVBS2	ADDNICS Corporation	Japan	Dimensions: 80mmx80mmx49.5 mm	on request

Products by manufacturer

AAC Clyde Space

SWEDEN · 1999 · 5 PRODUCTS

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from satellite components to data analytics for various applications.



AAC CLYDE SPACE
AAC Clyde Space PULSAR-XTX X-Band Transmitter

Extremely compact X-Band transmitter in CubeSat Kit PC/104 form factor with data rates up to 50 Mbps, CCSDS-compliant for compatibility with COTS demodulators.

Operating temperature	-25°C to +61°C
Power consumption	< 15 W
Mass	< 130 g
Supply voltage	6.2 V - 17 V
Frequency	8.025 GHz - 8.375 GHz

[price on request](#) [datasheet](#)



AAC CLYDE SPACE
AAC SpaceQuest RX-2000 S-Band Receiver

Adaptable low-power space-qualified FM S-band receiver for MicroSats and small satellites with up to 26 customer-programmable channels, 30+ years of on-orbit heritage.

Frequency	2000-2400 MHz
Data rate	9.6 to 153.6 kbps
Modulation	FM, GFSK
Sensitivity	-117 dBm @ 9600 bps, -110 dBm @ 128 kbps
Noise figure	2 dB nominal

[price on request](#) [datasheet](#)



AAC CLYDE SPACE
Pulsar-UTRX

The Pulsar-UTRX is a UHF/VHF transceiver designed for CubeSats and small satellites, providing reliable uplink and downlink communication.

Operating temperature	-25 to +61 C
Mass	<100 g
Supply voltage	3.3 V, 5 V
Frequency (UTRXC)	400-420 MHz
Frequency (UTRX)	430-440 MHz

[price on request](#) [datasheet](#)



AAC CLYDE SPACE
Pulsar-VUTRX

The Pulsar-VUTRX is a space-qualified transceiver designed for reliable uplink and downlink communication in space missions, offering robust lower data-rate backup capabilities.

Operating temperature	-25 to +61 C
Mass	<100 g
Supply voltage	3.3 V, 5 V
VHF frequency	140-150 MHz
UHF frequency (VUTRXC)	400-420 MHz

[price on request](#) [datasheet](#)



AAC CLYDE SPACE

TRX-U

The TRX-U is a space-qualified transceiver designed for reliable uplink and downlink communication in space missions. It can also serve as a robust lower data-rate backup radio.

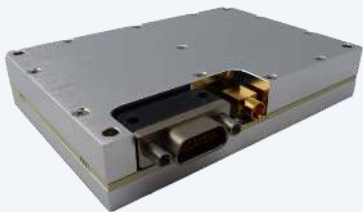
Tx frequency range	400-450 MHz (UHF)
Rx frequency range	130-175 MHz (VHF)
Tx output power	Up to 2 W
Rx sensitivity	<-118 dBm
Data rate	1.2 to 38.4 kbps (uplink/downlink)

[price on request](#) [datasheet](#)

AAC SpaceQuest (AAC Clyde Space subsidiary)

UNITED STATES · 1 PRODUCT

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from components to data analytics.



AAC SPACEQUEST (AAC CLYDE SPACE SUBSIDIARY)

TRX-U UHF Satellite Transceiver

Compact, high-performance UHF transceiver for CubeSat and SmallSat missions requiring low data-rate uplink and downlink TT&C communications.

Frequency band	UHF
Type	Transceiver (TX + RX)
Data rate	Low data-rate (uplink and downlink)
Applications	TT&C – Telemetry, Tracking, and Command
Target platform	CubeSat, SmallSat

[price on request](#)

Japanese aerospace electronics manufacturer specializing in wireless communication systems for micro, nano, and CubeSat satellite platforms, producing S-band, X-band, and UHF telemetry transmitters.

ADDNICS CORPORATION

A74 Series S-Band Telemetry Transmitter (STX)

Original ADDNICS S-band nanosatellite transmitter with QPSK/OQPSK modulation, first flown on SPRITE-SAT (2009).

Frequency band

S-band (~2.2–2.3 GHz)

RF output power

0.1 W

Modulation

QPSK/OQPSK (Intelsat IESS-308)

Data rate

Up to 100 kbps

Dimensions

95 x 50 x 20 mm

price on request

A black, rectangular electronic component with a yellow label on top and several connectors on the front.

ADDNICS CORPORATION

A88 Series S-Band Telemetry Transmitter (STX)

S-band telemetry transmitter for micro/nano/CubeSat platforms with on-orbit heritage on RISING-2, HODOYOSHI, DIWATA-1/2.

Frequency

2250–2300 MHz (S-band)

RF output power

0.5 W

Modulation

BPSK

Data rate

Up to 2 Mbps

Dimensions

80 x 80 x 15 mm

price on request

A black, rectangular electronic component with a yellow label on top and several connectors on the front.

ADDNICS CORPORATION

A88 Series S-Band Receiver (A88 SRX)

Compact S-band uplink receiver for small satellite TT&C, 80x80x16 mm, 140 g max, covering -130 to -40 dBm input range with PCM-PSK-PM demodulation.

Frequency band

S-band (customer-specified at order)

Modulation

PCM-PSK-PM

Data rate

1 kbps or 4 kbps (selectable)

Input level range

-40 to -130 dBm

Receive sensitivity

-122 dBm at 1 kbps, BER=1e-4

price on request

A black, rectangular electronic component with a yellow label on top and several connectors on the front.

ADDNICS CORPORATION

A88 Series X-Band Telemetry Transmitter (XTX)

X-band high-data-rate telemetry transmitter for small satellite mission data downlink, with DVB-S2 and transponder variants.

Frequency band

X-band (~8–9 GHz)

Variants

XTX (standard), XTX DVB-S2, X-TRP (transponder)

Mission heritage

Procyon deep-space (2014), DIWATA-1 (2016), DIWATA-2 (2018)

price on request



ADDNICS CORPORATION

UHF-Band Telemetry Transmitter (UHF Com)

Compact UHF-band transmitter for 1U CubeSats providing telemetry downlink in the 430–440 MHz band.

Frequency	430–440 MHz (adjustable)
RF output power	0.8 W
Modulation	GMSK, AFSK
Data rate (GMSK)	9.6 kbps
Data rate (AFSK)	1.2 kbps

price on request



ADDNICS CORPORATION

X-Band TT&C Transponder (X-TRP)

Full-duplex X-band TT&C transponder combining uplink command reception and downlink telemetry transmission in a single 80x80 mm A88-series unit with approx. 1 W RF output.

Frequency band	X-band (customer-specified at order)
Uplink/downlink ratio	880/749
Modulation	PCM-PSK-PM
Uplink subcarrier	16 kHz
Downlink subcarrier	8.192 kHz

price on request



ADDNICS CORPORATION

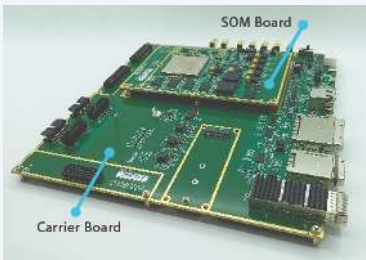
XTX-DVBS2

The XTX-DVBS2 is an X-band transmitter designed for satellite operations, featuring DVB-S2 and CCSDS encoding with a transmission output of up to 0.4W.

Dimensions	80mmx80mmx49.5 mm
Mass	Under 500 g
Transmit power	~0.4 W
Transmit frequency	Single specified X-band frequency (fixed at order)
Channel coding standard	CCSDS, DVB-S2

price on request

Addvalue designs and manufactures satellite-based communication and digital broadband products and solutions for connectivity across various applications, including space.



ADDVALUE TECHNOLOGIES

ADRS1000 Software Defined Radio Module

Ultra-high performance reconfigurable SDR module on Xilinx Zynq UltraScale+ RFSoc — ARM Cortex-A53 — for accelerating 5G and complex wireless system development.

Platform

Xilinx Zynq UltraScale+ RFSoc

Processor

Arm Cortex-A53

Type

Software Defined Radio (SDR)

Target markets

5G, complex wireless systems

price on request

Aitech Systems

Designer and manufacturer of rugged, high-performance embedded computing solutions for aerospace, defense, and space applications.



AITECH SYSTEMS

S703 Radiation Tolerant MIL-STD-1553 PMC Card

A radiation-tolerant single-width PMC card providing one dual-redundant MIL-STD-1553B channel (BC/RT/MT, STANAG 3838) with 64k × 16-bit shared RAM in engineering units, consuming 1

Protocol

MIL-STD-1553B (STANAG 3838 compliant)

Channels

1 dual-redundant BC/RT/MT

Shared ram

16k × 16 (flight); 64k × 16 (engineering)

Power consumption

< 3.3 W nominal

Pci interface

32-bit PCI 2.1, 33 MHz

price on request



AITECH SYSTEMS

S910 Rugged 3U CompactPCI MIL-STD-1553B Board

A radiation-tolerant 3U CompactPCI board providing four dual-redundant MIL-STD-1553B channels (BC/RT/MT modes, STANAG 3838 compliant) consuming less than 9.8 W, qualified for LEO t

Mil-std-1553b channels

4 total (2 base + 2 via S911 mezzanine), dual redundant

Protocol modes

BC/RT/MT, STANAG 3838 compliant

Shared ram per channel

16k × 16-bit (flight unit)

Power consumption

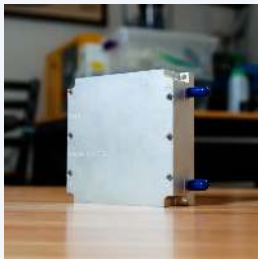
< 9.8 W at 50% duty cycle

Pci interface

32-bit PCI 2.1, 33.333 MHz

price on request

Akash Systems

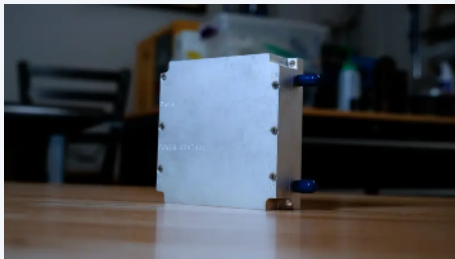


AKASH SYSTEMS
Akash Satellite Radio

A compact satellite radio from Akash Systems that uses Diamond Cooling® technology to deliver gigabit-speed data transmission with high energy efficiency and reliability for space

Downlink data rate	700 Mbps, extendable up to 1.4 Gbps
Form factor	10 cm x 10 cm x 3 cm
DC power consumption	Under 28 W
Modulation	Flexible modulation and coding scheme
Thermal management	Diamond Cooling

price on request



AKASH SYSTEMS
X/S-Band High-Speed LEO Radio

X/S-Band High-Speed LEO Radio transmits data at 650 Mbps for Earth observation and sensing applications.

Data Rate	650 Mbps
Bandwidth	120 MHz
Transmit Frequency	8-8.4 GHz
Receive Frequency	2.0-2.1 GHz
Power Consumption (DC)	less than 25 W

price on request

ALTER Technology

SPAIN · 1986 · 1 PRODUCT

ALTER Technology provides laboratory and engineering services for high-reliability EEE components, specializing in microelectronics and optoelectronics engineering, procurement, assembly, and testing

ALTER TECHNOLOGY
Optical Communication Systems

Alter Technology develops space-grade optical transceiver modules for intra-satellite communications and VCSEL-based optical interconnects for satellite onboard processors.

Data rates (per channel)	28 to 56 Gb/s
Channels	Multiple configurations
Application	Intra-satellite communications, Satellite onboard processors
Funding/project	European Space Agency (ESA), EU-funded SIPHODIAS project

price on request

Alya Space

BRAZIL · 2019 · 1 PRODUCT

Brazilian nanosatellite company founded 2019 in Salvador-Bahia developing a planned 216-satellite LEO constellation for environmental monitoring and climate observation.

ALYA SPACE
Optical Communication CubeSat

Alya Space's miniaturized optical intersatellite link (ISL) CubeSat demonstrator — testing laser communication technology for high-bandwidth

constellation backhaul.

Technology	Miniaturized laser optical ISL for CubeSats (3U–6U)
Data rate advantage	10–100× higher bandwidth than equivalent RF ISL
Target rate	1+ Gbps (vs. ~100 Mbps for RF)
Critical component	Miniaturized PAT (pointing, acquisition, tracking) mechanism
Market	Commercial LEO constellation operators needing high-rate satellite-to-satellite links

price on request

Alén Space

SPAIN · 2008 · 5 PRODUCTS

Alén Space designs, manufactures, and operates small satellites, providing end-to-end mission development services and advanced communication platforms, subsystems, and components for space and ground



ALÉN SPACE S-BAND TRANSCEIVER

The S-Band Transceiver is a high data rate feeder link transceiver for small satellites, based on Alén Space’s SDR technology, designed to maximize information download and shorten

Modulation	BPSK
Gross Data Rate	2 Mbps
Downlink	2200 MHz - 2290 MHz
Uplink	2025-2110 MHz
Protocol	CCSDS 131.0-B-1

price on request [datasheet](#)



ALÉN SPACE TOTEM — Software Defined Radio

Flight-proven (TRL-9) compact SDR for nanosatellites, based on Zynq 7020 SoC. Supports UHF, VHF, and S-band with GNURadio and in-orbit reconfiguration.

TRL	TRL-9 (Flight Heritage)
Processor	Zynq 7020 SoC (ARM Cortex-A9 + FPGA)
Tx channels	2
Rx channels	3
RF frontends	UHF, VHF, S-band (modular)

price on request [datasheet](#)



ALÉN SPACE

TOTEM nanosatellite SDR platform

TOTEM is a high-performance Software Defined Radio (SDR) platform designed for nanosatellites, featuring an embedded Linux system and a wide frequency range transceiver for various

Flight heritage	since 2018
High-performance system-on-chip (SoC)	Xilinx Zynq-7000 series
Wide frequency range RF transceiver	AD9364
Communication	Full duplex
Interface	FSI-connector based

[price on request](#) [datasheet](#)



ALÉN SPACE

TREVO

TREVO is a modular high-performance Software Defined Radio (SDR) platform designed for small satellites, integrating the radio chain and processing units into a single subsystem.

Socs based on	Zynq UltraScale+ family
Frequency	70 MHz – 6 GHz
Channel bandwidth	56 MHz
External modules	Up to 4
Configuration options	2 x SoC and 2 x TRX

[price on request](#) [datasheet](#)



ALÉN SPACE

TREVO — Modular High-Performance SDR

Modular, flight-proven (TRL-9) Software Defined Radio for small satellites. Configurable SoC + transceiver count, covering 47 MHz–6 GHz TX / 70 MHz–6 GHz RX.

TRL	TRL-9 (Flight Heritage)
Processor	Zynq UltraScale+ (ARM + FPGA), up to 2 SoCs
Tx frequency range	47 MHz to 6.0 GHz
Rx frequency range	70 MHz to 6.0 GHz
Transceivers	Up to 2 TRX modules

[price on request](#)

French manufacturer of flight-proven space antennas, software-defined radio platforms, and RF payload technologies for satellite and launcher missions, with heritage on 200+ missions.



ANYWAVES

VILSA SDR — Software Defined Radio Payload

Reconfigurable software-defined radio payload for small satellites supporting multiple waveforms and protocols.

Frequency range	0.3–6 GHz
Instantaneous bandwidth	up to 200 MHz
Mass	<300 g
Power consumption	<10 W
Interface	SpaceWire / UART

price on request



ANYWAVES

VILSA Software Defined Radio

The VILSA SDR is a versatile, fully reconfigurable Software Defined Radio for space missions, combining a high-performance digital core with a multi-channel RF frontend in a rugged

In-flight reconfigurability	Yes, via Zynq® UltraScale+ SoC
RF channels	Up to six receive and four transmit channels (configurable as 6Rx/2Tx or 4Rx/4Tx)
Architecture	Distributed board architecture (four modular boards)
Mission lifetime	5-year mission lifetime (designed for)
Operating frequency range	50 MHz to 7 GHz (direct sampling mode), up to 10 GHz (integrated superheterodyne receiver)

price on request



ANYWAVES

VILSA XDL X-Band Downlink Transmitter

The VILSA XDL is a high-speed X-band downlink transmitter designed for high-throughput payload data transfer in demanding space missions, leveraging DVB-S2X adaptive modulation.

Frequency band	X-Band – 8.025 to 8.400 GHz
Transmit power	Configurable from +28 to +38 dBm
Data rate	Up to 800 Mbps (using APSK 32/64)
Supported standard	DVB-S2X with adaptive modulation
Weight / Dimensions (XDL)	≈ 1,375 g / 88 × 55 × 210 mm

[price on request](#)

[datasheet](#)

Aphelion Orbitals

UNITED STATES · 2017 · 1 PRODUCT

Aphelion Orbitals is a New Jersey-based launch vehicle company developing the Helios nanosatellite launch system for regular, scheduled orbital access at low cost.



APHELION ORBITALS

Cubesat UHF/VHF Radio

The Aphelion UHF/VHF radio is a lightweight and highly configurable telemetry, tracking, and command (TT&C) system designed for Cubesat missions, supporting multiple data rates

Mass	72 g
Supported protocols	AX.25, HDLC
Modulation types	OOK, FSK, GFSK
Uplink frequency	143-146 MHz
Downlink frequency	430-438 MHz

[price on request](#)

[datasheet](#)

Argotec Srl

ITALY · 2008 · 1 PRODUCT

Argotec is an Italian spacecraft manufacturer that designed and operates the ArgoMoon CubeSat and develops satellite platforms and subsystems for ESA and commercial missions.



ARGOTEC SRL
UST-LITE RADIO

Modular Multi-Band/Channel Software Defined Radio for Next-Generation Deep Space Missions, optimized for peak performance in both Deep Space and LEO.

[price on request](#) [datasheet](#)

Arralis

IRELAND · 2 PRODUCTS

Irish developer of mmWave and RF/microwave MMICs, modules, phased-array antennas, and radar/comms front-end systems for satellite, aerospace and defense markets.

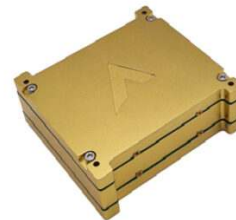


ARRALIS
K/Ka-Band SATCOM Transceiver Module KKa-TR-DL-1929

The KKa-TR-DL-1929 is a compact K/Ka-band SATCOM transceiver module with TX at 17-21 GHz and RX at 27-30 GHz, delivering 20 dBm linear output power, 2.5 dB noise figure, and sub-6

Tx RF frequency	17-21 GHz
Rx RF frequency	27-30 GHz
Tx if frequency	1-5 GHz
Rx if frequency	1-4 GHz
Lo reference	100 MHz external

[price on request](#)



ARRALIS
X-Band SATCOM Transceiver X-TR-DL-78

The X-TR-DL-78 is a compact X-band SATCOM transceiver covering TX 8-8.5 GHz and RX 7-7.5 GHz, delivering 1 W linear / 2 W saturated output power with a 1.8 dB noise figure, suitable

Tx frequency	8-8.5 GHz
Rx frequency	7-7.5 GHz
Tx if frequency	200-700 MHz
Rx if frequency	200-700 MHz
Lo reference	10 MHz

[price on request](#)

Astranis Space Technologies

UNITED STATES · 2015 · 1 PRODUCT

Astranis Space Technologies designs and manufactures small, powerful geostationary satellites with digital processing technology and proprietary SDRs for high orbits.



ASTRANIS SPACE TECHNOLOGIES

Astranis Vanguard

Vanguard is a satellite-enabled MANET solution combining an Astranis GEO satellite with Persistent Systems MPU5 radios and Kymeta/Satcube terminals, delivering air-gapped, rapidly

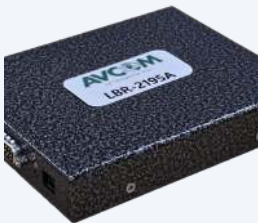
System type	Satellite-enabled MANET (Mobile Ad-Hoc Network)
Satellite orbit	Geostationary (GEO)
Beam footprint	~2,250 km diameter
Network architecture	Air-gapped, hubless
Services	Voice, video, broadband data

price on request

AVCOM of Virginia

UNITED STATES · 2 PRODUCTS

AVCOM of Virginia is a satellite communications equipment manufacturer founded in 1976, specializing in spectrum analyzers, satellite beacon receivers, and RF signal monitoring products.



AVCOM OF VIRGINIA

LBR-2195A L-Band Satellite Beacon Receiver

Compact L-Band satellite beacon receiver providing DC output proportional to input RF signal level for antenna pointing and uplink power control.

Frequency range	950–2150 MHz
Input level range	-30 to -90 dBm
Detection bandwidth	10–750 kHz
Tracking bandwidth	10–150 kHz
Carrier types	CW, BPSK, DVB (via CEPT)

price on request



AVCOM OF VIRGINIA

SBS2-2150E Embedded Satellite Beacon Receiver Board

Compact embedded single-board beacon receiver and spectrum analyzer for integration into satellite terminals and SOTM systems.

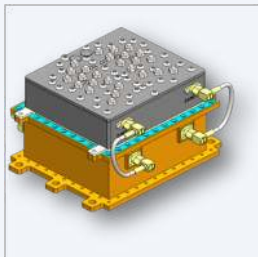
Frequency range	950–2150 MHz
Input level range	0 to -115 dBm
Detection bandwidth	10–750 kHz
Tracking bandwidth	10–150 kHz
Tracking types	CW/BPSK beacon, TPT, CEPT

price on request

Azista Space (Azista Aerospace)

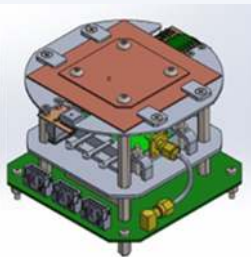
INDIA · 3 PRODUCTS

Indian manufacturer of spaceborne systems, payloads, and satellite-enabled ground systems including SATCOM and hydrometeorology sensors.



AZISTA SPACE (AZISTA AEROSPACE)

S-Band TM/TC Transceiver



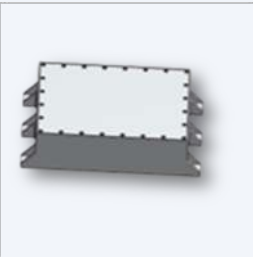
AZISTA SPACE (AZISTA AEROSPACE)

Tethered Black Box Satellite Transmitter (TBSAT)

S-Band telemetry and telecommand transceiver for satellite platforms.

Frequency band	S-Band
Function	Telemetry & Telecommand (TM/TC)
Application	Spaceborne satellite platforms

price on request



AZISTA SPACE (AZISTA AEROSPACE)
X-Band TM Transmitter

X-Band telemetry transmitter for high-data-rate downlink from satellite platforms.

Frequency band	X-Band
Function	Telemetry (TM) transmitter / downlink
Application	Satellite Earth observation, scientific missions

price on request

Compact tethered black-box satellite transmitter for spaceborne telemetry.

Type	Tethered Black Box Satellite Transmitter
Application	Satellite telemetry / RF downlink

price on request

Beyond Gravity (ex-RUAG Space)

SWITZERLAND · 1993 · 3 PRODUCTS

Swiss-Swedish space components manufacturer providing satellite structures, thermal control products, payload electronics, and antennas for commercial and institutional programs.



BEYOND GRAVITY (EX-RUAG SPACE)
Compact Frequency Converters and Receivers for FSS/BSS Payloads

Modular C-, Ku- and K-band frequency converters and receivers for telecom payloads, using MMIC and hermetic LTCC hybrid miniaturization.

Frequency plans	C to C, C to Ku, Ku to C, Ku to Ku, K to Ku band
Cross links	Supported between C- and Ku-band
Technology	MMIC and hermetic LTCC hybrid miniaturization
Interfaces	Configurable DC-power and TM/TC interfaces



BEYOND GRAVITY (EX-RUAG SPACE)
Ka-band Compact Frequency Receiver and Converter

Compact Ka-band payload receiver and converter with internal LO generation and EPC for most satellite bus standards.

Band	Ka-band payloads
Local oscillator	Internal LO generation; adaptable to LO frequencies up to 12 GHz
Power conditioning	Integrated EPC for most satellite bus standards
Technology	Latest MMIC technologies
Frequency range, Input	27.5 - 31.0 GHz

Application FSS/BSS telecom payloads

price on request [datasheet](#)

price on request [datasheet](#)



BEYOND GRAVITY (EX-RUAG SPACE)
Ka-band Low Noise Amplifier (LNA)

Space-qualified Ka-band LNA covering 27.5 to 31 GHz, built on mHEMT MMIC technology, available as single slice or multipack.

Frequency coverage	27.5 to 31 GHz (full Ka-band)
Technology	mHEMT MMIC
Configurations	Single LNA (Slice) with secondary DC power, or Multipacks up to Quad-packs with secondary
Interfaces	Configurable DC-power and TM/TC interfaces
Flight heritage	Beyond Gravity LNAs have accumulated over 10,000 years of operational time in orbit

price on request [datasheet](#)

celtonn

IRELAND · 2 PRODUCTS

Celtonn designs and manufactures space-qualified RF components and custom RF solutions, including W-Band and D-Band hardware, from its facility in Dublin, Ireland.



CELTONN
W-Band Receiver Module (WB-RX-9296-LN)

WB-RX-9296-LN is Celtonn's highly sensitive W-Band receiver module operating nominally from 92-96 GHz, with a 3.5 dB noise figure and WR10 waveguide interface.

RF input	91–97 GHz
RF output	1-7 GHz
Lo frequency	10.5/21-11.5/23 GHz
Lo power	10-18 dBm
Noise figure	3.5 dB

price on request [datasheet](#)



CELTONN
W-Band Transmitter Module

WB-TX-9296MP is Celtonn's medium-power heterodyned W-Band transmitter module operating nominally from 92-96 GHz, customizable for most W-Band frequencies.

RF output	91–97 GHz
RF input	1-7 GHz
Lo frequency	10.5/21-11.5/23 GHz
Lo power	10-18 dBm
Output power p1db	15 dBm

price on request [datasheet](#)

US manufacturer of software-defined, phased-array communication systems and payloads for satellite constellations, defense, and space applications.



CESIUMASTRO

SDR-1001

The SDR-1001 is a TRL 9 high-performance, compact software-defined radio designed for LEO and airborne operations, supporting custom waveform development and standards-based modems

TRL

9

price on request

Emhiser Research

US manufacturer of airborne and ground-based RF telemetry transmitters, receivers, command equipment and amplifiers for aerospace and defense range telemetry.

EMHISER RESEARCH

Command Exciters (ECEC Series)

5-inch rack-mount RF command exciters, 1 mW to 20 W, up to 20 tones

price on request

EMHISER RESEARCH

Command Receiver Decoders (ERD / ERDC Series)

Combined command receiver and tone decoder units, airborne and rack-mount, up to 20 tones

price on request

EMHISER RESEARCH

Command Receivers (ECRC / ETRC Series)

B2-band RF command receivers for range command-uplink systems

price on request

EMHISER RESEARCH

Command Transmitter Encoders (ECTC Series)

Rack and base-mount command transmitter/encoder units, 1 mW to 20 W, up to 20 tones

price on request

EMHISER RESEARCH

Command Transmitters (ETT / ETTC Series)

Airborne command transmitters in 9, 11 and 36 cubic-inch packages, single-frequency and channelized

price on request



EMHISER RESEARCH

Custom Amplifiers (EP Custom Series)

Custom-engineered RF power amplifiers built to customer frequency, power and package requirements

Power	50 W
Frequency	3.1 to 3.5 GHz
Power (2)	250 W
Frequency (2)	3.1 to 3.5 GHz
Power (3)	125 W

price on request datasheet

EMHISER RESEARCH

ESTI-T2E1-SR Transmitter

The ESTI-T2E1-SR is a channelized transmitter with a 2 cubic inch package, operating in the 2200-2300 MHz frequency range and offering switchable power output of 2W or 5W.

Model number	ESTI-T2E1-SR
Package	T2 (2 Cubic Inches)
Type	Channelized
Frequency	2200 - 2300 MHz
Frequency code	E1

price on request

EMHISER RESEARCH

EVTC-09G1D103-05

The EVTC-09G1D103-05 is a Voltage Controlled Transmitter, packaged in a 9 cubic inch form factor, likely used for satellite communication applications.

Model	EVTC-09G1D103-05
Package	09 (9 Cubic Inches)
RF OUTPUT POWER	10 Watts Minimum
RF OUTPUT IMPEDANCE	50 Ohms Nominal
Video Modulation Input Frequency	DC to 4.5 MHz ± 1.5 dB; DC to Response
	6.0 MHz ±3.0 dB

price on request datasheet



EMHISER RESEARCH

FSK Transmitters (EFT Series)

Frequency-shift-keyed command/data uplink transmitters, 9 cubic-inch airborne package

Power	2, 5/10/20 Watts Minimum
Input Impedance	50 Ohms
Deviation	+/- 25 KHz Peak
Modulation	FSK
Modulation Index	2.5 Max

price on request datasheet



EMHISER RESEARCH

Telemetry Transmitters (ETT Series)

Analog FM airborne telemetry transmitters in 1.3 to 36 cubic-inch packages

Output Power	5 Watt
Supply voltage	+28 ±4 Vdc
Frequency	1435.5 to 1710.0, 1850.0 to 2020.0, 2200.5 to 2399.5 MHz
Operating temperature	-20...+70 °C
Dimensions	3.40" x 1.865" x 0.30"

price on request datasheet

EMHISER RESEARCH

Wideband Telemetry Transmitters (EWT Series)

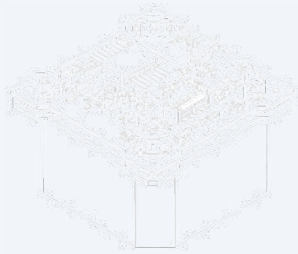
Wideband FM airborne telemetry transmitters for higher-bandwidth PCM/FM links

[price on request](#)

Emxys

SPAIN · 2007 · 2 PRODUCTS

Emxys is a Spanish space electronics company specialising in advanced onboard computers, power systems, optical transceivers, and complete nanosatellite platforms for data-intensive space missions.



EMXYS

ODALCOM

ODALCOM is a Free-Space C Band laser transceiver designed for small satellite platforms, enabling high-performance optical space-to-ground communication links with high data rates

Tx rate	500 Mbps
Volume	1U
Mass	<1.5Kg
Power consumption	lower than 3 W
Optical power	up to 1 W (100 mw nominal)

[price on request](#)



EMXYS

ODALISS TTC

The ODALISS TTC is an embedded CubeSat radio communication module designed for space-to-ground communications, featuring a fully configurable half-duplex VHF/UHF transceiver.

Cpu	168 MHz ARM® 32-bit Cortex®-M4, STM32 processor unit
Power supply	Redundant power-supply from regulated and unregulated bus
Power supply range	+5.8 V to +8.4 V (+7.6 V nominal)
Control lines	TTC Enable and Status lines
Communication type	Half-duplex earth-space communications

[price on request](#)

[datasheet](#)

EnduroSat

BULGARIA · 2015 · 3 PRODUCTS

Software-flexible CubeSat platforms (1U–16U+), shared-satellite hosted-payload service.



ENDUROSAT

S-band Transceiver

The S-band Transceiver is a communication module designed for satellite applications, operating within the 8000 - 8400 MHz frequency range.

Frequency range	8000 - 8400 MHz
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ENDUROSAT

UHF Transceiver

Half-duplex UHF data transceiver for CubeSat and SmallSat missions. Features configurable RF settings, AES-256 encryption, and in-orbit reconfigurable parameters for varying operat

Frequency range	400-403 or 435-438 MHz
-----------------	------------------------

price on request

Maximum data rate	19.6 kbps
Typical tx power	8 W
Voltage supply	5 V
Output power	27 or 33

price on request



ENDUROSAT

X-band SDR

An X-band software-defined radio (SDR) product from EnduroSat for satellite communications downlink.

Frequency range (Tx) 2200 to 2290 MHz (commercial)

price on request

EUROSATCOM

FRANCE · 2003 · 1 PRODUCT

French SATCOM equipment distributor and integrator; ground station hardware across L to Q band; founded 2003 in Les Ulis.



EUROSATCOM

VialiteHD Fiber Optic RF-over-Fiber Links

RF-over-fiber transmission links for L-Band, wideband, GPS, timing, and UHF/VHF signals up to 500km — 6GHz Mil-Aero module rated Outdoor IP55.

6ghz mil-aero module frequency 10 MHz to 6 GHz

6ghz mil-aero module rating Outdoor IP55

L-band hts dwdm distance Up to 500 km

Wideband link 10 MHz-3 GHz, up to 50 km

Ultra wideband link 2KHz-4.2 GHz, up to 50 km

price on request

Gatehouse Satcom

DENMARK · 1992 · 5 PRODUCTS

Danish embedded software specialist providing satellite communications protocol stacks, waveforms and test tools for terminals, satellites and networks.

GATEHOUSE SATCOM

GATEHOUSE SATCOM

5G NB-IoT NTN NodeB Software

3GPP-compliant 5G NB-IoT NTN NodeB protocol stack for satellite operators

price on request

5G NB-IoT NTN UE Software

5G NTN NB-IoT terminal (UE) protocol software for SDR-based devices

price on request

GATEHOUSE SATCOM

5G New Radio for Non-Terrestrial Networks (5G NR NTN)

5G NR NTN NodeB physical layer software for satellite operators and partners

price on request

GATEHOUSE SATCOM

BGAN Protocol Stack

Reference UMTS NAS/Inmarsat Access Stratum protocol stack for BGAN terminals

price on request

GATEHOUSE SATCOM

DAMA/IW Protocol Component

Embedded DAMA protocol software components for tactical and closed-network satcom terminals

price on request

GAUSS Srl

ITALY · 2012 · 1 PRODUCT

Italian company specializing in complete lifecycle management of CubeSats and NanoSatellites: design, manufacturing, subsystems, ground stations and deployers.



GAUSS SRL

GAUSS RADIO UHF – 2W/5W

A software-reconfigurable UHF radio transceiver for CubeSats and small satellites, available in 2 W and 5 W output power versions.

Configurations	2 W (low-power) and 5 W (high-power) versions
Uplink/downlink	Totally independent; each configurable with different frequencies, modulations and protocols
Reconfigurability	Reconfigurable via software, including dynamic output power changes
Form factor	Stackable on the same PCB/104 board (two radios in parallel or redundant configuration)
Included accessories	Adapter board for testing and a computer software interface

price on request [datasheet](#)

General Dynamics Mission Systems is a defense electronics manufacturer and integrator providing mission-critical solutions for land, sea, air, space, and cyber domains.



GENERAL DYNAMICS MISSION SYSTEMS

ConDR Configurable Digital Radio

The ConDR Configurable Digital Radio supports selectable frequency plans without requiring hardware changes, utilizing FPGAs for signal processing.

price on request

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.



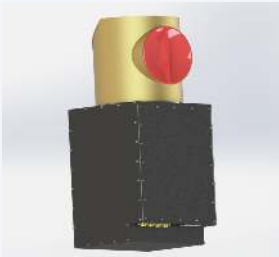
GLAVKOSMOS

High-speed X-band Downlink Transmitter

This is a high-speed X-band downlink transmitter providing reliable high-throughput communication from spacecraft to ground stations, with a throughput of up to 800 Mbps.

Purpose	It provides reliable high throughput communication channel from the spacecraft to ground s
Year of release	2014
Design life	7 years
Lead time	12 months
Flight qualification of the product	Yes

price on request



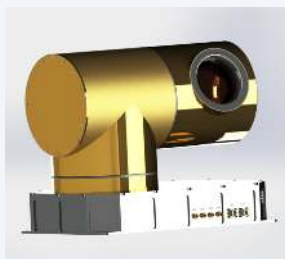
GLAVKOSMOS

Intersatellite Optical Communication Terminal

An Intersatellite Optical Communication Terminal designed for LEO satellite constellations to enable space internet and communications, supporting various network configurations.

Purpose	Providing communications in the constellation of satellites on LEO for the organization of
Design life	7 years
Lead time	12 months
Flight qualification of the product	No
Possibility to adapt the product to customer requirements	Yes

price on request



GLAVKOSMOS

Intersatellite optical communication terminal 2

The Intersatellite Optical Communication Terminal 2 is designed for high-speed optical communication between spacecraft in Low Earth Orbit (LEO) and other satellites, as well as for

Design life	7 years
Lead time	12 months
Flight qualification of the product	No
Possibility to adapt the product to customer requirements	Yes
Communication range	not less than 4500 km

price on request



GLAVKOSMOS

Nanosatellite Transceiver

A nanosatellite transceiver designed for transmitting telemetry information and receiving telecommands, operating on VHF/UHF frequencies with a data rate of 9600 bit/s.

Purpose	System designed for transmitting telemetry information and receiving telecommands.
Year of release	2019
Design life	1 year
Lead time	6 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

Radio Complex set RK-SM

The RK-SM Radio Complex set is designed for integration into the on-board radio systems of the 'Meteor-M' spacecraft, enabling reception of signals from COSPAS-SARSAT emergency beacons.

Purpose	Designed to work as part of the on-board radio systems of the spacecraft "Meteor-M".
	Recep
Year of release	2017
Design life	10 years
Lead time	6 months
Flight qualification of the product	Yes

price on request



GLAVKOSMOS

Splitter 3-3/MLS

Passive HF power splitter for signal distribution in Ka-band flight communication equipment.

Operating frequency band	25270–25410 MHz, 25910–26050 MHz, 26550–26690 MHz
Nominal input power	15 mW
Insertion loss	≤0.6 dB
Input/output vswr	≤1.33
Design life	15 years

price on request



GLAVKOSMOS

Splitter 6-3/K

Passive HF power splitter for signal distribution in Ka-band flight communication equipment.

Operating frequency band	20150–21250 MHz
Nominal input power	15 mW
Insertion loss	≤0.6 dB
Input/output vswr	≤1.3
Design life	15 years

price on request



GLAVKOSMOS

UHF Transceiver

Flight-proven UHF nanosatellite TT&C transceiver (43 g, 87×93×13 mm, 9600 bps, 1 W output, CAN2.0B, PC104) with SiriusSat-1/2 heritage.

Purpose	UHF TT&C data receiving and transmitting for nanosatellites
Year of release	2017
Design life	1 year
Lead time	2 months
Flight heritage	SiriusSat-1/2, launched 15 August 2018

price on request



GLAVKOSMOS

X-band Transmitter Designed for Lunar Spacecraft

An X-band transmitter designed for lunar landers, orbiters, and Lagrange-point spacecraft, providing data transmission to ground stations.

Purpose	The data transmission to ground stations from: - lunar landers; - lunar orbiters; - lagran
Year of release	2019
Design life	1 years
Lead time	12 months
Flight qualification of the product	No

price on request



GLAVKOSMOS

X-band Transmitter for Cubesat

The X-band Transmitter for Cubesat provides reliable high-throughput communication from spacecraft to ground stations, offering data rates up to 1 Gbps.

Purpose	It provides reliable high throughput communication channel from the spacecraft to ground s
Year of release	2019
Design life	3 years
Lead time	12 months
Flight qualification of the product	No

price on request

Globalstar provides satellite-based solutions for connectivity, asset tracking, and personnel safety across various industries, including government, transportation, and energy.



GLOBALSTAR (C-3 NEXT-GEN)
STX3 OEM Satellite Modem

Surface-mountable low-power OEM satellite modem for embedded asset tracking and telemetry — 12 μ A standby current, coin-sized footprint.

Dimensions	28.70 x 20.57 mm
Overall thickness (incl. components/shields)	4.13 mm
Standby current	12 μ A
Certifications	FCC CFR Part 25 Modular, Industry Canada, CE Tested

price on request

GomSpace

GomSpace is a Danish CubeSat manufacturer producing satellite platforms, subsystems, and end-to-end mission solutions. Products include the NanoCom radio modules, NanoPower EPS, and complete 1U–12U satellite platforms. GomSpace has one of t

GOMSPACE
GomSpace TR600 RF Module

The TR600 is an RF module designed for the NanoCom SDR MK3, featuring two independent TX and RX channels with shared frequency synthesizers and configurable RF performance.

Tx power linearity range	-55 to -20 dB
Tx power accuracy	+/- 3 dB up to 5500 MHz
Tx power variation vs. temperature	-1 dB/100°C
Rx lo range	70 – 1300 MHz
Rx minimum gain (70 – 1300 MHz)	-1 dB

price on request



GOMSPACE
NanoCom AX100

NanoCom AX100 is a highly compact and versatile half-duplex software configurable radio transceiver, available in two UHF bands specifically designed for long-range transmissions.

Frequency Options	UHF Low: 395-405 MHz, UHF: 430-440 MHz
Data Rates	0.1 kbps to 38.4 kbps
Modulation	GFSK/GMSK
Sensitivity	-137 dBm at 100 bps with FEC
Output Power	Adjustable 24 to 30 dBm

price on request [datasheet](#)



GOMSPACE

NanoCom AX100 S-Band Transceiver

The NanoCom AX100 is a high-performance S-Band transceiver module developed by GomSpace for CubeSat and small satellite communications. Operating in the S-Band (2–4 GHz) frequency

[price on request](#)



GOMSPACE

NanoCom AX2150

The NanoCom AX2150 is a versatile half-duplex S-band radio transceiver for satellite Telemetry and Telecommand (TMTC), featuring high sensitivity, encryption, and in-flight reconfi

Highlights	successful flight records since 2014
Uplink frequency	2025-2110 MHz
Downlink frequency	2200-2290 MHz
Data rate	2.4 kbps to 90 kbps
Transmitter output power	8 mW to 500 mW

[price on request](#)

[datasheet](#)



GOMSPACE

NanoCom AX2150 S-Band Transceiver

Versatile half-duplex S-band radio transceiver for nanosatellite TT&C, compatible with the GomSpace ecosystem.

Band	S-band
Duplex	Half-duplex
Application	TT&C for nanosatellites
Integration	GomSpace NanoDock compatible
Baud rate	500000 baud

[price on request](#)

[datasheet](#)



GOMSPACE

NanoCom SDR MK3

The NanoCom SDR MK3 is a Software Defined Radio platform known for its unique modularity and compact design, supporting custom RF applications.

SoC	Xilinx Zynq 7030/7045 Programmable SoC
Volatile Memory	1024 MB DDR3 (512 MB with ECC enabled)
Non-volatile memory	70 GB eMMC (pSLC) and 233 GB eMMC (MLC)
Mechanical dimensions	95 mm x 95 mm x 31.5 mm (with 3 x TR600)
Mass	240 g

[price on request](#)

[datasheet](#)



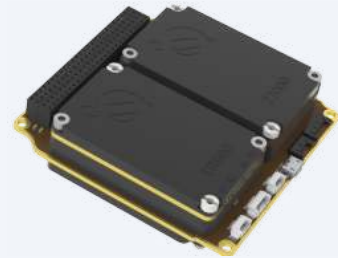
GOMSPACE

NanoCom SDR MK3 with 1xTR600

A software-defined radio (SDR) unit equipped with one TR600 module, designed for satellite communication applications.

Mass total	272 g
Dimensions (L x W x H)	95 x 95 x 23.85 mm
Operational temperature range	-40°C to 50°C
Non-operational temperature range	-40°C to 85°C
Supply voltage (Main/Backup)	12 V to 32 V

[price on request](#) [datasheet](#)



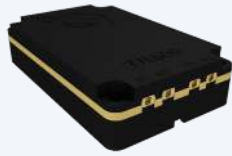
GOMSPACE

NanoCom SR2000

The NanoCom SR2000 is a flexible high-speed S-band radio transceiver built on GomSpace's SDR platform, designed for satellite to ground communication.

Layer-3 bandwidth	up to 6 Mbps (FDD)
Symbol rate	500 kBd to 7 MBd
S-band operation	1980-2290 MHz
Form factor	PC104
Interfaces	CAN, LVDS, I2C, SSMCX antenna connectors

[price on request](#) [datasheet](#)



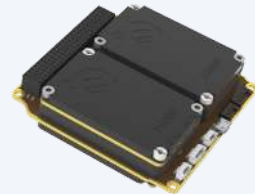
GOMSPACE

NanoCom TR-600

The NanoCom TR-600 is a radio daughterboard designed for use with GomSpace NanoDock SDR platforms, offering in-orbit reconfigurability and multiple antenna operation.

Transceiver	AD9361
Band	70 MHz to 6 GHz
Channel bandwidth	200 KHz to 56 MHz (tunable)
RF Transceiver	2 x 2 with integrated 12-bit DACs and ADCs
Operation	Supports TDD and FDD

[price on request](#) [datasheet](#)



GOMSPACE

Software Defined Radio (MK2)

The Software Defined Radio (MK2) is a space-qualified platform for sensing and communication applications, utilizing powerful and advanced FPGA technology.

FPGA module	Xilinx Synq 7030 Programmable SoC
Processor	Dual ARM Cortex A9 MPCore up to 800 MHz
RAM	1 GB DDR3 RAM
Storage	32 GB storage
Logic Cells	125K

[price on request](#) [datasheet](#)

Guodian Gaoke designs, develops, and operates the Tianqi Constellation, China's first low-Earth orbit satellite IoT network, providing global communication services for various industries and consumer



GUODIAN GAOKE (TIANQI SATELLITE)
IoT System Dedicated Communication Module

This is an IoT system dedicated communication module that supports short message communication with the in-orbit Tianqi Constellation and TTL serial communication.

Receiving sensitivity	-125 dBm~-133 dBm
Transmitting power	≤33 dBm
Dimensions	30 mm*20 mm*3.5 mm
Supply voltage	+3.3 V~+4.5 V
Frequency	UHF

price on request



GUODIAN GAOKE (TIANQI SATELLITE)
Satellite IoT Communication Module

A compact, low-power satellite IoT communication module designed for short message communication with the in-orbit Tianqi constellation, featuring LVTTL serial communication and GN

Receiving sensitivity	-125 dBm±1 dBm
Transmitting power	≤ 31 dBm
Dimensions	17.7 mm*15.8 mm*2.4 mm
Frequency	UHF
Data rate	268~1200 bps

price on request



GUODIAN GAOKE (TIANQI SATELLITE)
Satellite IoT Dedicated Communication Module

This is a communication module for satellite IoT systems, supporting short message communication with the Tianqi constellation and featuring built-in GNSS positioning.

Operating frequency band	UHF
Data rate	268~1200 bps
Transmit power	30.8~34.5 dBm
Receive sensitivity	-125~-133 dBm
Cold start time	≤35s

price on request



GUODIAN GAOKE (TIANQI SATELLITE)
Tianqi LEO IoT Constellation

China's first LEO satellite IoT constellation: 38 satellites at 900 km delivering near-real-time global UHF connectivity.

Constellation size	38 satellites
Orbit	~900 km LEO
Frequency	UHF
Service	Near-real-time global IoT messaging: text, voice, images
Coverage	Global, all-weather

price on request

Haigh-Farr designs, manufactures, and tests conformal and non-conformal antennas for high-performance aerospace vehicles.



HAIGH FARR
Power Dividers, Combiners, Hybrids & Diplexers

Haigh-Farr's power dividers/combiners offer 2, 3, 4, or 6-way division from UHF to X-Band frequencies, with options for equal or unequal amplitude distribution, phase progression,

Frequency	UHF to X-Band
Designs	2, 3, 4, or 6-way
Models available	Equal amplitude distributions, phase progression and quadrature hybrid models
Footprint	Small compact, Conformal and custom available
Durability	Built for extreme shock and vibration

[price on request](#) [datasheet](#)

HIRCOM

French manufacturer of radiation-resistant UHF TMTC cards for CubeSat and small satellite communications; a TRAD brand.



HIRCOM
HIRCOM CubeSat UHF Transceiver

Radiation-resistant, CubeSat-compliant half-duplex UHF transceiver for space-to-ground TMTC links.

Mass	85 g
Width	95 mm
Length	90 mm
Height	15 mm
Supply voltage	3.3 V (transceiver and controller), 5 V (power amplifier)

price on request [datasheet](#)

IMT (Ingegneria Marketing Technologies)

1991 · 1 PRODUCT

IMT designs and develops Nano/Micro-satellites and on-board units for commercial, scientific, and defense applications, and provides EEE parts engineering.



IMT (INGEGNERIA MARKETING TECHNOLOGIES)

IMT X-Band Transponder

ESTRACK-compatible CubeSat X-band transponder for deep space and Earth observation missions, 15W TX, 60 kbps downlink, 2-way Doppler/ranging/Delta-DOR, <1.5U volume, 1200g total

Uplink frequency	7145-7190 MHz (Cat B), 7145-7235 MHz (Cat A opt)
Downlink frequency	8400-8450 MHz (Cat B), 8400-8500 MHz (Cat A opt)
Tx output power	15 W
Downlink symbol rate	Up to 60 kbps (1 Mbps optional)
Uplink symbol rate	Up to 4,000 sps

price on request

Innoflight

UNITED STATES · 2004 · 3 PRODUCTS

Innoflight, Inc. is a US-based aerospace electronics company headquartered in San Diego, California, developing advanced software-defined radios (SDR), cryptographic communication systems, and flight computers for small satellites, CubeSats



INNOFLIGHT

SCR-104 S-Band Software-defined Compact Radio

On-orbit configurable S-band software-defined radio for CubeSat and SmallSat, 4.5+ Mbps downlink, USB and AFSCN SGLS support, flight heritage since 2019.

Uplink frequency	L-Band / S-Band
Downlink frequency	S-Band
RF power	Up to 2 W
Downlink data rate	4.5+ Mbps
Modulation	BPSK, QPSK, OQPSK



INNOFLIGHT

SCR-106 / SCR-106HDR X-Band Software-defined Compact Radio

X-band software-defined radio with up to 20 Mbps downlink (SCR-106) or 100 Mbps (SCR-106HDR), on-orbit configurable, flight heritage since 2022.

Uplink frequency	L-Band / S-Band
Downlink frequency	X-Band
RF power	Up to 2 W
Downlink data rate (SCR-106)	Up to 20 Mbps
Downlink data rate (SCR-106HDR)	Up to 100 Mbps

price on request

price on request



INNOFLIGHT

SCR-208 Medusa Ka-Band Software-defined Compact Radio

4th generation Ka-band software-defined radio with multi-channel RF wide band modem on AMD Zynq UltraScale+ RFSoc, supporting DVB-S2 at 400 Msps.

Uplink frequency	Ka-Band
Downlink frequency	Ka-Band
Modulation	DVB-S2 (400 Msps) and tactical datalink waveforms
Modem	Multi-channel RF Wide Band Modem on AMD Zynq UltraScale+ RFSoc
Dimensions	197 x 150 x 82 mm

price on request

IQ Spacecom

1999 · 3 PRODUCTS

IQ Spacecom designs and manufactures high-performance radio communication solutions, including SDR transceivers, antennas, and space switches, for small satellites and ground equipment.



IQ SPACECOM

IQ Spacecom X Link-X

The IQ Spacecom X Link-X is an advanced X-band software-defined radio (SDR) transceiver system for small satellites in LEO, offering high-speed bidirectional communication with dat

X band tx operation	8.025-8.400 GHz
X band rx operation	7.145-7.250 GHz
S band rx operation	2.025-2.110 GHz
Operational mode	FDD/Full duplex/ Half duplex
Data rate sat2ground	2 kbps... 200 Mbps

price on request [datasheet](#)



IQ SPACECOM

S-Band Transmitter for Pico and Nanosatellites

The HISPICO Transmitter is a highly integrated S band transmitter with special focus in design and testing for Pico and Nano satellite applications. Its design consists of 2 main...

Manufacturer	IQ Spacecom
Lead time	4 months

€6 500



IQ SPACECOM

XLink SDR Transceiver

XLink is a flexible and flight-proven Software Defined Radio (SDR) transceiver platform for small satellites, offering high reliability through COTS components and supporting multi

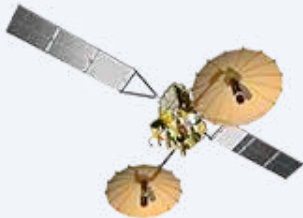
Flight proven design	TRL 9
Interface	Gigabit Ethernet, RS422 (SPI, UART, CAN)
Protocols	CCSDS, DVB-S2
Downlink/telemetry and payload data rates	up to 200 Mbps
Uplink/telecommand data rates	up to 1024 kbps

price on request

ISS Reshetnev

RUSSIA · 1959 · 1 PRODUCT

Russian satellite manufacturer in Zheleznogorsk, Siberia; GLONASS-K/M navigation, Express GEO comms, Luch data relay, and Yamal satellites; 1,400+ spacecraft built.



ISS RESHETNEV

Loutch Data Relay Satellite

Loutch (also spelled Luch) is ISS Reshetnev geostationary data relay satellite providing continuous radio link coverage to low-orbit spacecraft, launch vehicles, and the Russian se

price on request

Leijenaar Electronics B.V. provides professional RF/microwave design services, prototyping, and testing for applications including SATCOM and satellite transponders.



LEIJENAAR ELECTRONICS
LE016-R5 QO-100 Full-Duplex Transverter System

Compact full-duplex transverter system enabling communication via the QO-100 geostationary amateur satellite using a standard VHF/UHF transceiver — 650g, aluminum enclosure.

Up-converter input frequency	435 MHz (N-connector)
Up-converter output frequency	2400 MHz (SMA connector)
Nominal input power	5 W average
Minimum output power at 2400mhz	4 W
Down-converter	10 GHz to 1st IF via modified LNB

\$1 200

MBI Group

1 PRODUCT

MBI Group (MBI S.p.A.) is an Italian aerospace, defense, and advanced technology company headquartered in Rome, Italy, providing engineering services, system integration, and technology solutions for space, defense, and government programs.



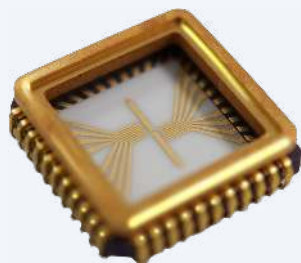
MBI GROUP
VDE-SAT Payload for Small Satellite Platforms

VDE-SAT compliant communications payload for small satellite platforms by MBI Group (Italy).

Standard	VDE-SAT (VHF Data Exchange - Satellite)
Platform	Designed for small satellite platforms
Application	Maritime data exchange beyond coastal VHF coverage

price on request

Ireland's largest photonics company, building end-to-end optical communication systems for space connectivity.



MBRYONICS

TERABIX

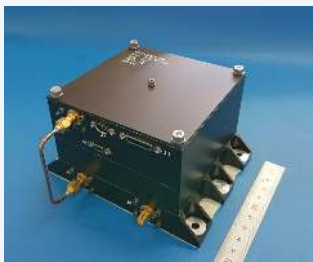
TERABIX is a radiation-hardened silicon photonic transceiver designed for high-speed data transmission with low power consumption, operating at data rates up to 112Gb/s PAM4.

Format	10GBASE Ethernet
Bitrate / gbps	10
Typical power consumption / w	3
Energy consumption per bit / pj	300
Format (2)	TeraBIX (56 Gb/s/ channel NRZ)

price on request

Meisei Electric

Meisei Electric manufactures comprehensive environmental measurement systems. Their products include measuring instruments for ground use, sondes for stratosphere use, and observation equipment for satellites.



MEISEI ELECTRIC

Satellite-mounted X-band transmitter (MTX-540X)

Achieves world-class frequency efficiency of 64APSK for Earth observation downlink, enabling up to 538Mbps downlink.

Data rate	538 Mbps
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price on request

[datasheet](#)

Mercury Systems delivers end-to-end processing ecosystems for aerospace and defense systems. They provide signal, compute, data management, display, and secure products. They have supported over 75 different spacecraft missions, including e



MERCURY SYSTEMS

DCM3110 Digital Transceiver

The EnsembleSeries™ DCM3110 is a compact 3U digital transceiver that incorporates low-latency ADC and DAC channels with powerful FPGA processing.

price on request

Compact



SWaP focused,
3U form factor

Highly Configurable



Scalable
and coherent

Secure



Trusted
and proven

MERCURY SYSTEMS

DCM3220 Digital Transceiver

The EnsembleSeries™ DCM3220 is an agile, OpenVPX digital transceiver in a 3U form factor designed for SWaP-constrained, rugged environments in applications such as unmanned airborne

FPGA	Virtex® Ultrascale+™ VU7P
MPSoC	Zynq ® Ultrascale+™ ZU11EG
DSP slices	7,488
Memory	8 GB DDR4
ADC channels	Two 12-bit

price on request

datasheet



MERCURY SYSTEMS

DCM6111 Digital Transceiver

The EnsembleSeries™ DCM6111 is an agile, OpenVPX digital transceiver with integrated BuiltSECURE™ technology, offering a configurable, low-latency, coherent 6U Rx/Tx module.

price on request



MERCURY SYSTEMS

DCM6112 Microwave Transceiver

The EnsembleSeries™ DCM6112 is an agile, OpenVPX digital transceiver with integrated BuiltSECURE™ technology, offering multi-channel, highly-configurable Rx/Tx capabilities.

ADC channels	Four
DAC channels	Four
ADC/DAC rate	3.2 GSPS
FPGAs	Three
Memory	16 GB DDR4

price on request



MERCURY SYSTEMS

DCM6212 Digital Transceiver

The EnsembleSeries™ DCM6212 is an agile, OpenVPX digital transceiver with integrated BuiltSECURE™ technology, offering configurable, low-latency, and coherent Rx/Tx capabilities.

Data rate 6.4 GSPS

price on request

NanoAvionics

LITHUANIA · 2014 · 3 PRODUCTS

Pre-integrated nanosatellite buses (3U–16U+ MP42), green chemical propulsion, mission integration.



NANOAVIONICS

S-Band Transceiver SRS-3

Low-power full-duplex S-band TM/TC transceiver for CubeSat and SmallSat, 512 kbps TX, adjustable output up to 30 dBm, mass 190 g.

Type Full-duplex S-band TM/TC transceiver

Transmit frequency 2200 to 2290 MHz

Receive frequency 2025 to 2110 MHz

Variable transmit symbol rate Up to 512 kbps

Variable receive symbol rate Up to 128 kbps

price on request



NANOAVIONICS

S-Band Transceiver SRS-4

High-speed full-duplex S-band transceiver for micro- and nano-satellites, up to 5 MBd TX, BPSK/QPSK/8PSK, CCSDS coding, 33 dBm output.

Type Full-duplex S-band high-speed transceiver

Transmit frequency 2200 to 2290 MHz

Receive frequency 2025 to 2110 MHz

Variable transmit symbol rate Up to 5 MBd

Transmit modulation BPSK, QPSK, 8PSK

price on request



NANOAVIONICS
SatCOM UHF Digital Radio Transceiver

UHF digital radio transceiver for CubeSat command-and-telemetry communications.

Type	UHF digital radio transceiver
Use case	Telemetry / telecommand
Flight heritage	60+ satellites launched, 300+ in production (per nanoavionics.com)

price on request

NEC Space Technologies

JAPAN · 1954 · 2 PRODUCTS

Japanese electronics company providing satellite bus systems, communication payloads, and ground systems for Japanese government and commercial space programs.



NEC SPACE TECHNOLOGIES
Command Receiver (CMDRX)

The Command Receiver (CMDRX) is a satellite equipment designed to receive commands from the ground segment, essential for satellite operation and control.

price on request



NEC SPACE TECHNOLOGIES
Solid State Power Amplifier (SSPA)

NEC Space Technologies offers Solid State Power Amplifiers (SSPA) designed for satellite communication systems, providing reliable signal amplification for various frequency bands.

price on request

Needronix

POLAND · 2017 · 1 PRODUCT

Polish smallsat hardware company designing and manufacturing components and subsystems for CubeSats and small satellites, serving commercial and institutional space customers across Europe.



NEEDRONIX

Cormorant UHF/VHF Transceiver

Compact CubeSat UHF/VHF transceiver for TT&C — half-duplex, SpaceX/AX.25 protocol support, compact, low-power, flight-proven.

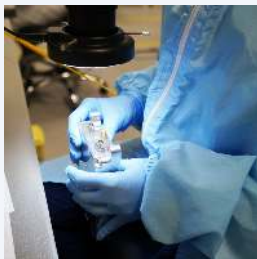
Frequency bands	UHF / VHF
Duplex mode	Half-duplex
Protocol support	AX.25, SpaceX
Applications	CubeSat TT&C (telemetry, tracking, command)

price on request

NewSpace Systems (NSS)

SOUTH AFRICA · 1 PRODUCT

NewSpace Systems (NSS) manufactures spacecraft components and sub-systems, focusing on Guidance, Navigation, and Control (GNC) products for commercial spacecraft manufacturers globally.



NEWSPACE SYSTEMS (NSS)

LYNX X-band / Ka-band Transmitter

Compliant X-band and Ka-band high-data-rate transmitters for space applications, supporting CCSDS-compliant payload data downlink and intersatellite links up to 400 Mbps.

Data link compliance	CCSDS 131.3 Compliant
Frequency (X-band)	8.025 to 8.4 GHz
Frequency (Ka-band)	25.5 to 27 GHz
Output power	Adjustable up to 2 W
Max data rate	Up to 400 Mbps

price on request [datasheet](#)

OutThere Astronautics

NEW ZEALAND · 2020 · 1 PRODUCT

OutThere Astronautics is a University of Auckland spin-out developing plug-and-play optical mesh networking modules that let satellites communicate directly with each other, reducing dependence on congested ground radio stations.



OUTTHERE ASTRONAUTICS

Messenger

Messenger is a plug-and-play optical communication module designed for satellites to create a scalable, attitude-independent optical mesh network in

space.

price on request

Paradigma Technologies

GERMANY · 3 PRODUCTS

Paradigma Technologies designs and manufactures mmWave telecommunication systems for small satellites, cubesats, and SOTM applications.



PARADIGMA TECHNOLOGIES

K Band Transmitter

Compact K Band (17.8–20.2 GHz) transmitter for CubeSat and SmallSat missions with integrated modulator and BUC/beacon modes.

RF output frequency	17.8 – 20.2 GHz
RF input frequency (BUC mode)	900 – 3500 MHz
Signal bandwidth	Up to 250 MHz
RF output power	Digitally selectable up to 2 W
Modulations	ASK, PSK up to 2 Mbps; OQPSK, MSK, FSK, GFSK, 4-FSK up to 350 kbps

price on request



PARADIGMA TECHNOLOGIES

Ka Band Receiver with UHF Transceiver

Compact dual-mode Ka Band receiver (26.5–30 GHz) with integrated UHF transceiver (900–930 MHz) for CubeSat/SmallSat missions and mmWave 5G.

KA band RF input	26.5 – 30 GHz
If output	3.4 – 5.8 GHz
KA band noise figure	≤ 2.5 dB
KA band gain	Up to 110 dB
UHF band	900 – 930 MHz

price on request



PARADIGMA TECHNOLOGIES

Q Band Transmitter

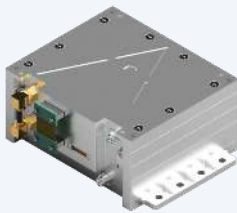
Miniaturized 1.5U Q Band (37.5–42.5 GHz) transmitter for CubeSats with 28 dBi lens horn antenna and 30 krad radiation tolerance. Space heritage Q2 2023.

RF output frequency	37.5 – 42.5 GHz
If input	2185 MHz
Antenna gain	28 dBi dual-polarized lens horn, LHCP/RHCP selectable
Eirp	48 dBm
Signal bandwidth	Up to 250 MHz

price on request

PicoSaTs

ITALY · 4 PRODUCTS

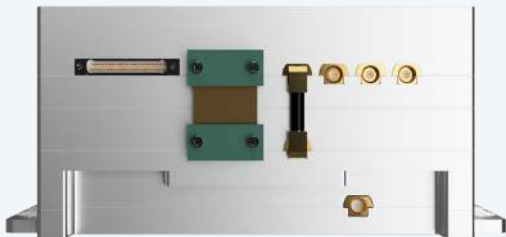


PICOSATS
RADIO SAT K/Ka-Band Transponder

Miniaturized 0.5U non-regenerative bent-pipe K/Ka-band transponder, 700 g, up to 5 W RF, bandwidth customizable from 400 kHz to 500 MHz.

Downlink	17.8 - 20.2 GHz
Uplink	27.6 - 30.0 GHz
Bandwidth	Customizable from 400 kHz to 500 MHz (20 MHz default)
RF output power	Up to 5 W
Receiver noise figure	3 dB

[price on request](#) [datasheet](#)



PICOSATS
RADIO SAT Ka-Band Datalink Transmitter

Sub-0.5U Ka-band downlink transmitter under 500 g reaching 4 Gbps, DVB-S2X with ACM up to 256 APSK.

Downlink	25.5 - 27 GHz
RF output power	Up to 5 W
Data rate	Up to 4 Gbps
Modulation and channel coding	DVB-S2X with ACM, up to 256 APSK
Volume	< 0.5 U

[price on request](#) [datasheet](#)



PICOSATS
RADIO SAT Ku-Band Transponder

Miniaturized Ku-band bent-pipe transponder with dual selectable uplink bands, up to 5 W RF and customizable 400 kHz to 200 MHz bandwidth.

Downlink	10.7 - 12.75 GHz
Uplink (dual selectable bands)	12.75 - 13.25 GHz and 13.75 - 14.8 GHz
Bandwidth	Customizable from 400 kHz to 200 MHz (30 MHz default)
RF output power	Up to 5 W
Receiver noise figure	3 dB

[price on request](#) [datasheet](#)



PICOSATS
RADIO SAT Software Defined Radio

Sub-0.5U modem/SDR under 500 g with 300 MHz to 7 GHz tuning, up to 4 Gbps transmit and 1 Gbps receive.

Channels	2x 1 GHz IBW Rx channels, 2x 1 GHz IBW Tx channels
Frequency range	300 - 7000 MHz
Tx data rate	Up to 4 Gbps
Rx data rate	Up to 1 Gbps
Protocols	DVB-S2X with ACM and pre-distortion on transmit, CCSDS on receive; optional DVB-RCS2 or cu

[price on request](#) [datasheet](#)

Plan-S designs, manufactures, launches, and operates satellite systems for IoT connectivity (Connecta) and Earth observation data analytics (Observa), with 21 satellites launched.



PLAN-S (CONNECTA)
Software Defined Radio (SDR)

The SDR is a compact, high-performance, and modular radio subsystem designed for small spacecraft, offering scalable processing and multi-application support.

Frequency range	70 MHz - 6 GHz
Memory	4 Mbit /8 Mbit SPI FRAM
Memory (2)	128 Gbit SD Memory
Mass	<280 gr
Power consumption	< 7 W

[price on request](#) [datasheet](#)



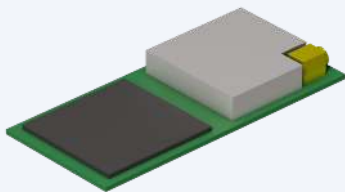
PLAN-S (CONNECTA)
X-Band Transmitter

The X-Band Transmitter provides reliable, high-throughput downlink for LEO missions with adaptive modulation, DVB-S2 coding, and a modular architecture.

Frequency range	8025 – 8400 MHz
RF output power	Up to 33 dBm (in-flight configurable)
Modulation	QPSK, 8PSK, 16APSK, 32APSK
Data rate	425 Mb/s
Frequency stability	±1 ppm (per year) ±3 ppm (10 years)

[price on request](#) [datasheet](#)

German manufacturer of miniature optoelectronic ADCS components for small satellites and CubeSats.



PYXIS SPACE
UHF/VHF Transceiver

The Pyxis Space UHF/VHF Transceiver provides a compact, multi-mode radio communication module for CubeSat TT&C (telemetry, tracking, and command) operations. In an extremely sm

Dimensions	6 × 30 × 62 mm³
Output power	Up to 1.4 W
Communication modes	AX.25 AFSK/GFSK TM & TC, APRS digipeater, SSTV-FM
Interface	CAN 2.0B, UART
Frequency bands	UHF / VHF (configurable)

€6 000

Global leader in frequency control and timing solutions — space-qualified oscillators, GNSS receivers and S-band transceivers — with 40+ years of flight heritage.



RAKON LIMITED
NewSpace S-Band Transceiver

Integrated NewSpace S-band transceiver subsystem for CubeSat and small satellite TT&C (Tracking, Telemetry and Command) communications.

Frequency band	S-band
Type	Integrated transceiver (Tx + Rx)
Application	CubeSat and small satellite TT&C
Product class	NewSpace
Mass	250 g

[price on request](#) [datasheet](#)

ReliaSat is a UK manufacturer of Ka-band RF and mm-wave systems, transceivers, phased array antennas, and MMICs for satellite, aerospace, defence, and 5G markets.

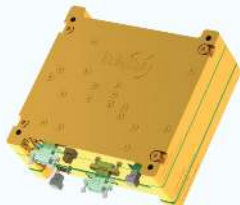


RELIASAT
K/Ka-Band Single Channel Transceiver TR1000

The TR1000 is a complete K/Ka-band RF satellite transceiver module enabling direct interface with a modem or SDR for high data-rate Ka-band payloads. It supports TX at 17-21 GHz an

Tx frequency	17-21 GHz
Rx frequency	27-31 GHz
Tx if frequency	1-5 GHz
Rx if frequency	1-5 GHz
Tx output power	>11 dBm

[price on request](#) [datasheet](#)

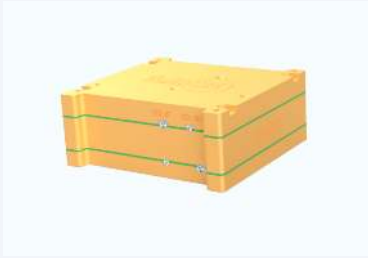


RELIASAT
Ka-Band Frequency Agile Transceiver TR400

The TR400 is a fully integrated Ka-band satellite transceiver with two programmable local oscillators covering TX 17.3-20.7 GHz and RX 27.5-30.5 GHz with up to 250 MHz instantaneous

Tx frequency	17.3-20.7 GHz
Rx frequency	27.5-30.5 GHz
Tx if frequency	0.4-2 GHz
Rx if frequency	0.4-2 GHz
Tx output power	25-27 dBm

[price on request](#) [datasheet](#)



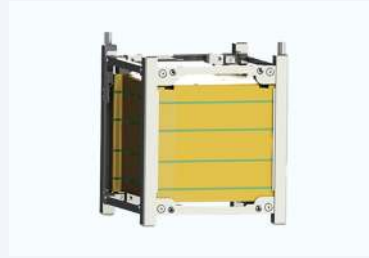
RELIASAT

Ka-Band Integrated Transceiver Module UDC400

The UDC400 is a compact standalone Ka-band transceiver module for LEO satellite communications, offering 250 MHz instantaneous bandwidth, +/-0.28 ppm TCXO frequency stability, and

Tx output frequency	17-21 GHz
Rx input frequency	27-30 GHz
Tx if frequency	1-5 GHz
Rx if frequency	1-4 GHz
Instantaneous bandwidth	Up to 250 MHz

[price on request](#) [datasheet](#)



RELIASAT

Ka-Band Satellite Transponder TR500

The TR500 is a dual-transceiver Ka-band transponder module for LEO satellite payloads, providing 27 dBm saturated output power, sub-2.5 dB noise figure, and up to 250 MHz instantan

Tx frequency	17-21 GHz
Rx frequency	27-31 GHz
Saturated output power	27 dBm
Noise figure	<2.5 dB
Instantaneous bandwidth	Up to 250 MHz

[price on request](#) [datasheet](#)

Saab Space

SWEDEN · 1937 · 1 PRODUCT

Swedish defense and aerospace company providing satellite transponders, on-board computers, and telecommunications systems for European and international space programs.



SAAB SPACE

R6 VDES Space Payload

Saab's space-hardened VHF Data Exchange System (VDES) payload for satellite-based maritime communication, flown on the Ymir-1 satellite launched via SpaceX Falcon 9 in November 2022

Payload type	Space-hardened VDES (VHF Data Exchange System) transponder
Host mission	Ymir-1 satellite
Launch date	11 November 2023
Launch vehicle	SpaceX Falcon 9
Vessel detection	60,000+ unique vessels per day

[price on request](#)

Independent space firm building full-stack sovereign space programs -- satellites, ground stations, comms, analytics, and mission control -- for allied nations.



SATELLIZE

ExseedSat-1 Amateur Radio CubeSat (VO-96)

ExseedSat-1 (OSCAR designation VO-96 / VUosat-OSCAR 96) is India's first privately built and operated satellite, launched December 3, 2018 aboard a SpaceX Falcon 9 (SSO-A ride)

Form factor	1U CubeSat (10 × 10 × 10 cm)
Mass	~1 kg
Material	Aluminium alloy
Orbit	Polar SSO, ~600 km altitude
Launch date	December 3, 2018

price on request

Danish manufacturer (Aalborg) of compact, radiation-tolerant SDR and RF transceivers for satellite TT&C and payload data, including S-band, X-band, AIS, ADS-B, LoRa, and maritime VDES products.



SATLAB A/S

Polaris LoRa

The Satlab Polaris LoRa is a self-contained software-defined radio receiver for 868 MHz ISM band LoRa messages, featuring an integrated demodulator and storage, designed for CubeSat

Frequency coverage	865.000 to 870.000 MHz
Bandwidth	125.000 kHz
Spreading factors (SF)	8 and 9
Coding rate (CR)	1, 2, 3 and 4
Payload length	2 to 250 bytes

price on request

datasheet



SATLAB A/S

Satlab Polaris ADS-B

The Satlab Polaris ADS-B is a self-contained software-defined radio receiver for 1090 MHz ADS-B messages, featuring an integrated demodulator and storage.

Frequency band	1090 MHz
Ads-b message types	DF 17 & 18
Sensitivity	-102 dBm (80% reception rate)
Noise figure	<2 dB
Maximum message rate	8333 messages/second

price on request

datasheet



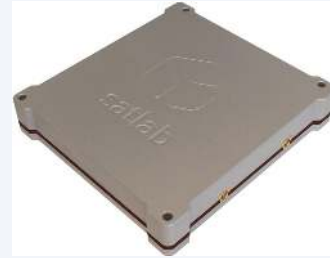
SATLAB A/S

Satlab VTRX

The Satlab VTRX is a half-duplex VDES/VDE-SAT transceiver compliant with ITU-R M.2092-1, designed for nano- and microsatellites in low Earth orbit.

Parameter	Specification
Transmitter frequency	157.1875 MHz to 157.3375 MHz (lower leg) 161.7875 MHz to 161.9375 MHz (upper leg)
Transmitter channels	2
Transmitter power	20 dBm per channel (nominal, adjustable)
Transmitter link ids	26, 32, 33

[price on request](#)



SATLAB A/S

SRS-3 Full-duplex S-band Transceiver

Full-duplex, low-power S-band transceiver for TM & TC on micro- and nanosatellites, with TRL 9 and over 100 units delivered worldwide.

Tx frequency range	2200–2290 MHz
Tx symbol rate	9.6–512 kBd
Tx output power	Adjustable 20–30 dBm with ALC
Rx frequency range	2025–2110 MHz
Rx symbol rate	9.6–128 kBd

[price on request](#)

[datasheet](#)



SATLAB A/S

SRS-4

The Satlab SRS-4 is a full-duplex S-band transceiver for micro- and nano-satellites, supporting high-speed data transfer with BPSK, QPSK, and 8PSK modulation.

Transmitter frequency	2200 to 2290 MHz
Transmitter modulation	BPSK/QPSK/8PSK, 100 kBd to 5 MBd
Transmitter power	20 to 33 dBm
Receiver frequency	2025 to 2110 MHz
Receiver modulation	BPSK/QPSK, 100 kBd to 5 MBd

[price on request](#)

[datasheet](#)

sci_Zone, Inc. is a small engineering firm that designs satellite communication radios and flight management software for CubeSats, UAVs, and IoT applications, leveraging the Globalstar LEO satellite network via their LinkStar radio system



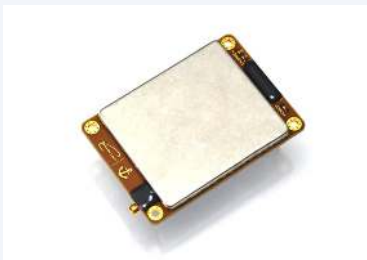
SCI_ZONE / QUICKSAT
LinkStar Radio System

LinkStar is a space-qualified satellite radio system utilizing the Globalstar™ network, providing both simplex and duplex communications for various satellite platforms and launch

Interface	Web browser (laptop/tablet)
Network	Globalstar satellite
Platforms	Spacecraft, UAVs, balloons, vehicles

price on request

Czech manufacturer (Prague) of Space-Friendly CubeSat and PocketQube subsystems: GNSS/AIS/ADS-B antennas, BusCORE radio terminals, ADCS sensors, and dosimeters, in continuous orbital operation since 2017.



SKYFOX LABS S.R.O.
piAIS/FM (Flight Model)

The piAIS is a World's First Space-Friendly™ True 2-Channel Dual Band CubeSat AIS Receiver working in VHF band as Maritime Automatic Identification System Monitor.

Power Requirement	3.0-3.6 V @ 65 mA (210 mW typical)
UART	115200-8-N-1, 3V3-CMOS levels
Dimensions	76x53x12 mm
Wide Temperature Range	-40°C to +85°C
Low mass	55 grams

price on request

Smiths Interconnect designs and manufactures high-reliability electronic components, microwave, optical, and radio frequency products for aerospace, defense, medical, semiconductor test, and industria

SMITHS INTERCONNECT - SPACE

Space-Grade RF Microwave Filters

High-reliability space-qualified RF bandpass, lowpass, and bandstop filters for satellite communication and navigation payloads.

Types

Bandpass, lowpass, bandstop, notch

Standards

MIL-STD, ESCC qualified

Applications

Comms, navigation, E0 payloads

Flight heritage

Hundreds of commercial and government satellites

price on request

Space Inventor ApS

DENMARK · 2015 · 1 PRODUCT

Space Inventor ApS is a Danish second-generation NewSpace company providing non-ITAR CubeSat, nanosat, and microsat components, platforms, and turnkey satellite missions with full vertical integration, headquartered in Aalborg with offices



SPACE INVENTOR APS

SDR-P4

Software-defined radio with dual full-duplex S-band or S/X-band channels and 64 GB of persistent storage.

Msrp

€35,000

Storage

64 GB persistent storage

Ranging

Transparent pseudo-noise ranging per CCSDS 414.0-G2

RF front-end options

Two full-duplex S-band channels, or one S-band full-duplex channel + one X-band transmit c

Standard

CCSDS Cat A

\$35 000

SpaceLink

UNITED STATES · 2019 · 1 PRODUCT

SpaceLink builds a MEO relay satellite constellation providing secure, continuous communications for LEO spacecraft, defense users, civil agencies, and commercial human spaceflight.

SPACELINK

SpaceLink Civil Space Data Relay Service

SpaceLink offers a commercial data relay service for civil space missions, providing high-capacity, fast data transfer capabilities.

price on request

Spacemanic s.r.o.

SLOVAKIA · 2017 · 1 PRODUCT

Slovak-Czech full-service nanosatellite mission provider offering CubeSat platforms (1U-16U), onboard subsystems, rideshare launch integration, and ground segment services.



SPACEMANIC S.R.O.

Murgas

Murgas is a compact UHF/VHF transceiver module designed for CubeSats and small satellites, offering reliable communication for various space applications.

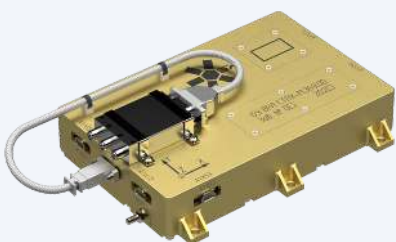
Operating temperature	-40°C to +85°C
Dimensions	67 x 42 x 7.5 mm
Mass	25 g
Power supply	3.3 V
Power supply (for CAN)	5 V

price on request [datasheet](#)

SPUTNIX

RUSSIA · 2011 · 6 PRODUCTS

SPUTNIX is a Russian manufacturer of nanosatellite and microsatellite platforms, onboard subsystems and ground infrastructure, operating as a subsidiary brand of Sitronics Group.



SPUTNIX

High-speed radio line control unit

A power and control interface converter unit that interfaces with high-speed transmitters of target information.

Power supply	22...33 V, galvanic isolation 500 V
Control interface	CAN, duplicated
Output power parameters	+11...+16.5 V, 30 W
Parameters of the control output interface	x4 RS-422
Dimensions	171 x 120 x 46 mm



SPUTNIX

S-band TM/TC radio link

A full-duplex S-band command-telemetry radio link for high-speed communication with ground stations and inter-satellite links.

Dimensions	117 x 111 x 48 (without fasteners and diplexer)
Mass	0.85 (without diplexer) kg
Power voltage	22-34, galvanic isolation 500 V
Power consumption, wt	22 (reception + transmission), 3 (reception)

price on request

Duplicated interfaces

CAN2B, SpaceWire, RS-485,
Ethernet

price on request



SPUTNIX

SXC-UHF-02 UHF Transceiver

OrbiCraft-Pro UHF-band transceiver on a PC104 board for the spacecraft electronics stack, with an SMA antenna connector and antenna-deployment interface. Supports AX.25 and USP (FE)

Type	UHF transceiver (PC104 board)
Dimensions (without PC104)	87 × 93 × 13 mm
Mass	43
Supply voltage	5–14
Power consumption	3.5 W (TX) / 0.2 W (RX)

price on request



SPUTNIX

UHF TM/TC radio link

A half-duplex UHF-band transceiver providing telecommand/telemetry radio links between spacecraft and ground stations for the Pallada/SXC platform families.

Dimensions	115 × 66 × 19 (without fasteners) mm
Mass	135 g
Power voltage	6-36 without galvanic isolation
Power consumption, wt	20 (transmission), 1 (reception)
Operating mode	Half duplex

price on request



SPUTNIX

UHF transceiver

A single-board CubeSat UHF radio (SXC-UHF-02) for telemetry, telecommand and beacon transmission with in-flight reconfigurable parameters.

Model	SPUTNIX SXC-UHF-02
Feature	Half-duplex communication via single antenna
Feature (2)	Single board radio for telemetry, telecommand and beacon
Feature (3)	CAN command schedules execution and storage using ROM memory
Feature (4)	In-flight reconfigurable beacon period, datarate, frequency, call sign etc.

price on request



SPUTNIX

X-band High Data Rate Transmitter

An adaptive X-band phased-array transmitter (HDRT-X) providing high-speed downlink of payload data with in-flight adaptive data rate/modulation.

Mass	15 kg
Overall dimensions	315 × 315 × 120 mm
Carrier frequency	8220 MHz
Data transfer and reception speed (@ ber 1e-8), mbit/s	600-1750
Power voltage	22-34, galvanic isolation

price on request

Affordable hardware development for miniaturized aerospace systems, with a proven flight-heritage track record in nanosatellite power, propulsion and RF tracking subsystems.



STELLAR EXPLORATION, INC.
Passive Nanosatellite Tracking and Telemetry RF Tag

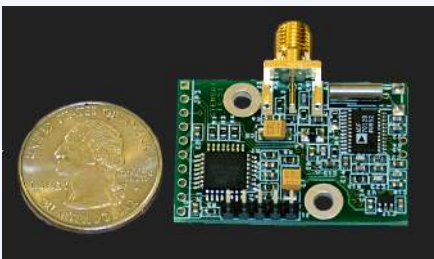
Low-cost, passive RFID-like RF tracking tag for small satellites, using backscatter modulation from space radars with no power draw on the host.

Modulation	Backscatter modulation from space radars
Power	Fully passive, energy harvesting (no host power draw)
Mounting	No harnessing, deployment or release switches required
Lead time	3 months
Flight heritage	NASA PACE-1 and PACE-2 satellites

price on request [datasheet](#)

StenSat Group LLC

Small-satellite RF subsystems and picosatellite engineering support based in the USA.



STENSAT GROUP LLC
CANSAT Transmitter Module

The CANSAT Transmitter Module is a low-cost, low-power RF subsystem designed for CANSAT applications, supporting AX.25 protocol and APRS packet formatting.

Frequency bands	2m, 70 cm, 916 MHz
Operating voltage	5 to 12 volts
Data interface	UART at 38.4 Kbits/sec

price on request



STENSAT GROUP LLC
Stensat radio beacon

The Stensat radio beacon is a small FM transmitter designed for satellites, capable of generating AX.25 UI packets at 1200 bps AFSK and 9600 bps FSK.

Frequency bands	2m, 70 cm
RF output power	0 to 3 watts
Operating voltage	5 to 12 volts
Data interface	UART at 38.4 Kbits/sec
Dimensions	1.75" x 3.1" x 1 "

price on request

Developer of miniaturized RF communication subsystems for small satellites, including X-band transmitters, S-band transceivers, GNSS receivers, and spectrum monitoring payloads. Now a division of Safran Data Systems.



SYRLINKS

EWC15-NG – S/S-Band Transceiver – CCSDS

The EWC15-NG is a new generation S/S-Band transceiver from Syrlinks, designed for high-performance Telemetry, Tracking and Control (TT&C) services in space, fully compliant with

Name	EWC15-NG - S/S-Band Transceiver - CCSDS
Vendor	Syrlinks
Subsystem	Telecom Subsystem
Component type	Transceiver
Form factor	SmallSat

[price on request](#) [datasheet](#)



SYRLINKS

EWC27 – X-Band Transmitter

The EWC27 is an X-band transmitter designed for small satellites, offering high data rate telemetry up to 100 Mbps and robust transmission in the 8GHz X-band.

Subsystem	Telecom Subsystem
Component type	Transmitter
Form factor	CubeSat
Vendor	Syrlinks
Flight heritage	Yes

[price on request](#) [datasheet](#)



SYRLINKS

EWC27 + OPT27-SRX – X/S Transceiver

The EWC27 + OPT27-SRX is a miniature X/S band transceiver for small satellites, providing simultaneous Telemetry & Telecommand (TT&C) and high-speed X-band telemetry.

Name	EWC27 + OPT27-SRX - X/S Transceiver
Vendor	Syrlinks
Subsystem	Telecom Subsystem
Component type	Transceiver
Form factor	CubeSat

[price on request](#) [datasheet](#)



SYRLINKS

EWC27 X-Band Transmitter

High-data-rate X-Band transmitter for CubeSats and nanosatellites supporting up to 140 Mbps. ITAR-free, TRL 9, 120+ flight models.

Frequency	X-Band (8–8.5 GHz downlink)
Max data rate	140 Mbps
ITAR	ITAR-free
Flight heritage	120+ flight models, 100% reliability; OPS-SAT, HawkEye 360
TRL	9 (flight-proven)

[price on request](#)



SYRLINKS

EWC28 – X-Band Transmitter

The EWC28 is an X-Band Transmitter operating in the 8025–8400MHz frequency range, offering data rates up to 100Mbps and programmable RF output power from 30 to 39dBm.

Name	EWC28 - X-Band Transmitter
Vendor	Syrlinks
Subsystem	Telecom Subsystem
Component type	Transmitter
Form factor	SmallSat

[price on request](#) [datasheet](#)



SYRLINKS

EWC31 – S/S Band Transponder

EWC31 is a high-performance CCSDS S-band transceiver developed by Syrlinks with CNES support for NanoSat and CubeSat platforms.

Subsystem	Telecom Subsystem
Component type	Transponder
Form factor	CubeSat
Vendor	Syrlinks
Flight heritage	Yes

[price on request](#) [datasheet](#)

SYRLINKS

EWC31-NG S/S-Band Transponder

Next-generation S-Band TT&C transponder for CubeSats and nanosatellites with radiation hardening and ITAR-free design.

Frequency	S-Band (2025–2290 MHz)
Function	TT&C (telemetry, tracking, command)
Duplexer	Integrated
Radiation tolerance	Radiation-hardened components
ITAR	ITAR-free

[price on request](#)



SYRLINKS

EWC34 – Ultra High Speed X-Band Transmitter

EWC34 is Syrlinks' 2nd generation X-Band (8GHz) transmitter for high data rate telemetry downlink from small satellite platforms, qualified for extended LEO missions up to 10 years

Subsystem	Telecom Subsystem
Component type	Transmitter
Form factor	SmallSat
Vendor	Syrlinks
Flight heritage	Yes

[price on request](#) [datasheet](#)



SYRLINKS

N-XONOS – X-Band Transmitter – High Data Rate

The N-XONOS is a high data rate X-band transmitter for CubeSats and Nano Satellites, offering 200/350 Mbps for LEO missions and an optional S-Band receiver.

Name	N-XONOS - X-Band Transmitter - High Data Rate
Vendor	Syrlinks
Subsystem	Telecom Subsystem
Component type	Transmitter
Form factor	CubeSat

[price on request](#) [datasheet](#)



SYRLINKS

Syrlinks EWC36 L-band transmitter

The Syrlinks EWC36 L-band transmitter is a second-generation, high-reliability L-band transmitter designed for space applications, operating between 1698 MHz and 1710 MHz.

Life-time LEO missions	7.5 years
Reliability design	ESA CLASS 3
Testing & qualification	ECSS-Q-ST-60C CLASS 3 / NASA Level II
Radiation	tested & hardened
Protection	Smart protection against SEE

[price on request](#)



SYRLINKS

XONOS – X-Band High-Data-Rate Transmitter

XONOS is Syrlinks' latest-generation X-Band high-data-rate transmitter for mini/micro-satellites, enabling downlink data rates greater than 1 Gbps.

Subsystem	Telecom Subsystem
Component type	Transmitter
Form factor	SmallSat
Vendor	Syrlinks
Status	In Production

[price on request](#) [datasheet](#)

TALOS GmbH

GERMANY · 2022 · 1 PRODUCT

TALOS develops satellite-based IoT technology and CubeSat payloads, transforming natural movement into global intelligence from space.



TALOS GMBH

ECHO Software Defined Radio (SDR)

Versatile software-defined radio module for satellite IoT signal reception and processing in LEO CubeSat payloads.

Type	Software-defined radio (SDR)
Function	LEO satellite IoT signal reception and processing
Architecture	Reconfigurable software-defined
Platform compatibility	1U–3U CubeSats
Flight heritage	RAVEN microsatellite, TALOS-I constellation (ICARUS 2.0)

price on request

TEKEVER

PORTUGAL · 2001 · 1 PRODUCT

TEKEVER develops AI-driven autonomous unmanned aerial systems and satellite subsystems for civil and defence missions.



TEKEVER

GAMALINK Inter-Satellite Link Radio

Software-defined S-band radio for inter-satellite links with ranging accuracy better than 50 cm. Flight-proven on ESA Hera.

Type	Software-defined S-band ISL radio
Ranging accuracy	< 50 cm
ITAR	ITAR-free
Flight heritage	ESA Hera mission (asteroid proximity operations)
TRL	9 (flight-proven)

price on request

Teledyne Defence & Space

UNITED KINGDOM · 7 PRODUCTS

UK unit of Teledyne Technologies: RF and microwave modules, filters and transceivers for space and defence, including the QubeFlex smallsat transceiver.

TELEDYNE DEFENCE & SPACE

CB503 High-Power Tunable Bandpass Filter

The CB503 is a digitally tunable high-Q bandpass filter from Teledyne Defence & Space, designed to replace multiple fixed filters with a single tunable solution spanning approx

Model	CB503
Tuning range	160 MHz to 360 MHz



TELEDYNE DEFENCE & SPACE

Filter type	Digitally tunable high-Q bandpass
Filter architecture	Three-section machine combine
Tuning method	Digital

price on request



TELEDYNE DEFENCE & SPACE

QR026 High Performance Wideband Receiver

The QR026 is a Single Channel High Performance Receiver from Teledyne Defence & Space, offering wideband synthesised capability from 500 MHz to 18 GHz with optional frequency e

Model	QR026
Frequency range	500 MHz to 18 GHz (extensions to 40 GHz optional)
Channel count	Single channel
Architecture	RF + digital down conversion, LO generation, digitisation
Applications	ELINT, ESM, COMINT, signals intelligence, space payloads

price on request

DR068-M1 Digitising Receiver

The DR068-M1 is a 2–18 GHz Digitising Receiver from Teledyne Defence & Space that combines a broadband frequency measurement receiver with a high dynamic range successive detec

Model	DR068-M1
Frequency range	2–18 GHz
Output interface	Gigabit Ethernet (low latency)
Output format	Pulse Descriptor Word (PDW)
Key feature	High probability of intercept (POI)

price on request



TELEDYNE DEFENCE & SPACE

QR035 Multi-Channel High Performance Receiver

The QR035 is a Multi-Channel High Performance Receiver from Teledyne Defence & Space, designed for precision ESM and ELINT applications requiring direction finding capability t

Model	QR035
Frequency range	500 MHz to 18 GHz (extensions to 40 GHz optional)
Channel count	1–6 phase- and amplitude-matched channels
If outputs	Multiple outputs
Matching	Phase and amplitude matched between channels

price on request



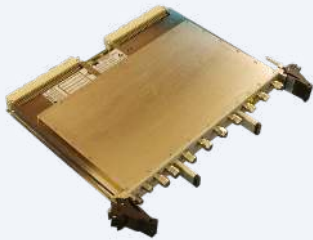
TELEDYNE DEFENCE & SPACE

QubeFlex CubeSat/SmallSat Transceiver/Modem

The QubeFlex is a software-defined modem designed for CubeSat and smallsat missions in low-earth orbit, offering reliable communications with high data rates and robust error correction

Base modem tx/rx data rate	2.4 kbps to 2.048 Mbps
Base modem standards	CCSDS/Intelsat
Ethernet switch	4-port Gigabit Ethernet
Forward error correction	CCSDS & Intelsat
If operation	50 to 180 MHz

[price on request](#) [datasheet](#)



TELEDYNE DEFENCE & SPACE

SA002 Adaptive Filter Module / Switch Multiplexer

The SA002 from Teledyne Defence & Space is a patented Adaptive Filter Module providing 8 switchable channels across the 2–18 GHz frequency range for wideband Electronic Warfare

Model	SA002
Frequency range	2–18 GHz
Number of channels	8 switchable channels
Switching speed	Pulse-by-pulse reconfiguration
Filter responses	Band-pass and band-stop selectable per channel

[price on request](#)

TELEDYNE DEFENCE & SPACE

Solid State Power Amplifier (SSPA)

Teledyne Defence & Space designs and manufactures Solid State Power Amplifiers (SSPAs) using LDMOS, GaAs, InP and GaN technologies, generally producing custom designs to custom

Frequency range	UHF to Ku-band
Output power range	100 W (module) to multi-kW (system)
Technology	LDMOS, GaAs, InP, GaN
Gan pulsed frequency	Up to 18 GHz
Gan cw power	Tens of watts up to 31 GHz

[price on request](#)

Terma

DENMARK · 1949 · 1 PRODUCT

Terma is a global aerospace, defense, and security company that develops and manufactures radar systems, aircraft self-protection systems, and space components like star trackers for international customers



TERMA

Terma SPECTRA – SDR TT&C modem

The Terma SPECTRA is a software-defined TT&C modem engineered for reliability, security, and flexibility for satellite communication.

price on request

Tethers Unlimited, Inc. (AMERGINT)

UNITED STATES · 1994 · 2 PRODUCTS

US developer of deployable space structures, the SWIFT software-defined radio, HYDROS water-electrolysis thrusters and in-space manufacturing tech; now part of ARKA Group (formerly AMERGINT).



TETHERS UNLIMITED, INC. (AMERGINT)

SWIFT Software-Defined Radio Family

Modular, flight-proven software-defined radio platform from Tethers Unlimited (TUI), configurable across UHF, L, S, X and Ka bands for small-satellite telemetry, tracking and comm

Networks	NEN/DSN: CCSDS TC/TM, Raw bit-sync; USN: SLGS, CCSDS; AFSCN: SGLS, USB; RBC, Atlas, SFN; C
Electrical interfaces	RS-232/422/485; LVDS; 3.3v CMOS/TTL; CAN/SPI/I2C; Ethernet 10/100; MIL-STD-1553
Modulations	TX: BPSK, QPSK, OQPSK, 8PSK, 16APSK; RX: BPSK, QPSK, OQPSK; PM, CPM; SGLS-Ternary
Fec	Reed-Solomon w/ interleaving; Convolutional w/ puncturing; Soft-Viterbi; BCH; Turbo/LDPC;
Protocols	Sync. Clock+Data (200 Mbps); Dual SpaceWire (100 Mbps); Dual UART (10 Mbps); HDLC Framing;

price on request [datasheet](#)



TETHERS UNLIMITED, INC. (AMERGINT)

SWIFT® Radios and RAVEN – SDR

The SWIFT® family of Software Defined Radios (SDR) provides high-performance communications for small satellite operations, built on a modular platform with diverse software control

Flight heritage	Yes
Networks (SWIFT-XTS)	NEN/DSN: CCSDS TC/TM, Raw bit-sync; USN: SLGS, CCSDS; AFSCN: SGLS, USB; RBC, Atlas, SFN; C
Networks (RAVEN - SDR)	USN: SLGS, CCSDS; AFSCN: SGLS, USB; RBC, Atlas, SFN; Custom/commercial/private; Crypto uni
Electrical interfaces (SWIFT-XTS)	RS-232/422/485; LVDS; 3.3v CMOS/TTL; CAN/SPI/I2C; Ethernet 10/100; MIL-STD-1553
Electrical interfaces (RAVEN - SDR)	LVDS; 3.3v CMOS/TTL; CAN/SPI/I2C; Ethernet 10/100; MIL-STD-1553

price on request [datasheet](#)

Tiger Innovations, Inc.

UNITED STATES · 1997 · 1 PRODUCT

US aerospace electronics firm (General Atomics subsidiary); solar array simulators, RF devices, EGSE, and payload testing for space programs.



TIGER INNOVATIONS, INC.

RFX-400

The RFX-400 is a cost-effective, extremely small form-factor UHF transceiver designed for spacecraft communication, supporting multiple modulation formats, encryption algorithms, a

Frequency range	387 - 464 MHz (90 usec settling time)
Sensitivity	-122 dBm
Output power	<1 mW to +8.1 W, digitally adjustable
Data rate	1.2 - 500 kbps
Modulation	2-FSK, GFSK, MSK, 00K, flexible ASK shaping

[price on request](#) [datasheet](#)

Triad RF Systems

UNITED STATES · 2016 · 26 PRODUCTS

New Jersey-based manufacturer of GaN power amplifiers and bi-directional amplifiers for military, commercial, and space radio systems covering 30 MHz to 8.5 GHz in compact, ruggedized modules.



TRIAD RF SYSTEMS

TA1007

500-2800 MHz, 5 W GaAs power amplifier module supporting simple CW/FM through highly modulated 64/256QAM signals.

Frequency low	500 MHz
Frequency high	2800 MHz
P1db dbm (Typ)	36
Tx gain	39 dB
Supply voltage (Vdc)	11-13

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA1017

1700-2400 MHz, 32 W SISO GaN power amplifier for military and commercial radio systems.

Frequency low	1700 MHz
Frequency high	2400 MHz
P1db dbm (Typ)	44
Tx gain	27 dB
Supply voltage (Vdc)	10-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA1029

6400-7100 MHz, 25 W GaN power amplifier (end of life / discontinued, information provided for reference only).

Frequency low	6400 MHz
Frequency high	7100 MHz
Tx gain	58 dB
Supply voltage (Vdc)	9-36
Psat (Typ)	44

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA1049

A 700–6000 MHz class AB GaN SISO power amplifier delivering +40 dBm saturated output power in a compact, low-SWaP package for military, commercial, and NewSpace applications.

Model	TA1049
Frequency low	700 MHz
Frequency high	6000 MHz
P1db dbm (Typ)	35
Tx gain	40 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA1140

400-450 MHz, 50 W LDMOS power amplifier module for high-linearity, high-efficiency signal transmission.

Frequency low	400 MHz
Frequency high	450 MHz
Tx gain	52 dB
Supply voltage (Vdc)	11-13
Psat (Typ)	47

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA1160

5500-8500 MHz, 20 W SISO GaN power amplifier for high power density, efficient C/X-band transmission.

Frequency low	5500 MHz
Frequency high	8500 MHz
P1db dbm (Typ)	37
Tx gain	52.5 dB
Supply voltage (Vdc)	12-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA1216

300-6000 MHz, 32 W SISO GaN power amplifier covering a very wide bandwidth for military and commercial use.

Frequency low	300 MHz
Frequency high	6000 MHz
P1db dbm (Typ)	42
Tx gain	55 dB
Supply voltage (Vdc)	12-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TA4010

4400-5000 MHz, 50 W GaN power amplifier for C-band military and commercial radio systems.

Frequency low	4400 MHz
Frequency high	5000 MHz
P1db dbm (Typ)	46
Tx gain	26 dB
Supply voltage (Vdc)	12-32

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

THPR1060

Range Enhanced Silvus StreamCaster S-Band radio system, 4-channel MIMO with 120 W total amplified Tx power.

Radio core	Silvus
Band	S
Mimo streams	4
Frequency low	2200 MHz
Frequency hi	2500 MHz

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

THPR1060 Triad High Power Radio

A 4-channel, S-Band amplified radio system built around a Silvus StreamCaster SC4410-235-O MIMO radio core paired with high-power RF amplification for extended range and throughput

Model	THPR1060
Radio core	Silvus
Band	S
Mimo streams	4
Frequency low	2200 MHz

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

THPR1070

Range Enhanced Silvus StreamCaster C-Band radio system, 4-channel MIMO with 80 W total amplified Tx power.

Radio core	Silvus
Band	C
Mimo streams	4
Frequency low	4700 MHz
Frequency hi	5000 MHz

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

THPR1076

Range Enhanced DTC L-Band radio system, 2-channel MIMO with 40 W total amplified Tx power.

Radio core	DTC
Band	L
Mimo streams	2
Frequency low	1140 MHz
Frequency hi	1450 MHz

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

THPR1080

Range Enhanced Silvus StreamCaster C-Band radio system, 2-channel MIMO with 40 W total amplified Tx power.

Radio core	Silvus
Band	C
Mimo streams	2
Frequency low	4400 MHz
Frequency hi	5000 MHz

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

Triad THPR1060 Range Enhanced Silvus StreamCaster Radio System

A high-power S-Band radio system integrating a Silvus StreamCaster SC4410-235-O radio with RF amplification and control circuitry for extended range and higher data rates.

Operating frequency	2200 - 2500 MHz
Amplified tx power	120 W (30 W per channel)
Power output per mimo stream (5 Mbps)	50 W
Power output per mimo stream (20+ Mbps)	10 W
Supply voltage range	+22 to +32 VDC

[price on request](#)



TRIAD RF SYSTEMS

TTRM1116

1200-1400 MHz, 40 W GaN bi-directional amplifier (BDA) with integrated Tx/Rx switching.

Frequency low	1200 MHz
Frequency high	1400 MHz
Tx gain	20 dB
Supply voltage (Vdc)	10-28
Rx noise figure	1 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM1116 Bi-Directional Amplifier

The TTRM1116 is a bi-directional amplifier module designed to support various signal types, from simple CW/FM to complex modulated carriers like 64 and 256QAM, utilizing GaN transistors.

Model	TTRM1116
Frequency low	1200 MHz
Frequency high	1400 MHz
Tx gain	20 dB
Supply voltage (Vdc)	10-28

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM123D

2200-2500 MHz, 63 W LDMOS dual bi-directional SSPA (solid state power amplifier).

Frequency low	2200 MHz
Frequency high	2500 MHz
Tx gain	25 dB
Supply voltage (Vdc)	27-30
Rx noise figure	2.3 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM1210-D01 Bi-Directional Amplifier

The TTRM1210-D01 is a bi-directional amplifier module designed to support various signal types, from simple CW/FM to complex modulated carriers like 64 and 256QAM, utilizing GaN transistors.

Model	TTRM1210
Frequency low	30 MHz
Frequency high	2700 MHz
Tx gain	36 dB
Supply voltage (Vdc)	12-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM2002

2200-2500 MHz, 10 W GaN bi-directional amplifier with internal bypass relay and status monitoring.

Frequency low	2200 MHz
Frequency high	2500 MHz
Tx gain	25 dB
Supply voltage (Vdc)	10-30
Rx noise figure	2.5 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM2002 2200-2500 MHz 10 W Bi-Directional Amplifier

The TTRM2002 is an S-Band Bi-Directional power amplifier operating from 2200 to 2500 MHz, offering up to 10 Watts of output power and supporting various signal types from CW/FM to

Model	TTRM2002
Frequency low	2200 MHz
Frequency high	2500 MHz
Tx gain	25 dB
Supply voltage (Vdc)	10-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM2005DR

A 2200-2500 MHz, 25 W dual bi-directional solid-state power amplifier (SSPA) module supporting high-order modulation for S-band radio links.

Model	TTRM2005DR
Frequency low	2200 MHz
Frequency high	2500 MHz
Tx gain	25 dB
Supply voltage (Vdc)	12-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM4005QR

4400-5000 MHz, 25 W GaN quad bi-directional SSPA with temperature compensation and TTL Tx/Rx switching.

Frequency low	4400 MHz
Frequency high	5000 MHz
Tx gain	25 dB
Supply voltage (Vdc)	12-28
Rx noise figure	2.5 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM4302 Bi-Directional Amplifier

The TTRM4302 is a bi-directional amplifier module designed to support various signal types, from simple CW/FM to complex modulated carriers like 64 and 256QAM, operating between 50

Model	TTRM4302
Frequency low	5000 MHz
Frequency high	6000 MHz
Tx gain	25 dB
Supply voltage (Vdc)	10-30

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM4310

5000-6000 MHz, 50 W GaN bi-directional amplifier with forward power measurement and Tx/Rx status monitor.

Frequency low	5000 MHz
Frequency high	6000 MHz
Tx gain	28 dB
Supply voltage (Vdc)	10-30
Rx noise figure	3 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM4402R

5000-5300 MHz, 10 W GaN bi-directional amplifier with automatic Tx/Rx switching and amplifier status output.

Frequency low	5000 MHz
Frequency high	5300 MHz
Tx gain	25 dB
Supply voltage (Vdc)	10-14
Rx noise figure	2.5 dB

[price on request](#) [datasheet](#)



TRIAD RF SYSTEMS

TTRM4510

5300-5900 MHz, 50 W GaN bi-directional amplifier with forward power measurement and optional heatsink.

Frequency low	5300 MHz
Frequency high	5900 MHz
Tx gain	28 dB
Supply voltage (Vdc)	10-14
Rx noise figure	3 dB

[price on request](#) [datasheet](#)

Vulcan Wireless

UNITED STATES · 5 PRODUCTS

Vulcan Wireless is a Carlsbad, California-based manufacturer of software-defined radios (SDRs), RF transceivers, and encrypted communication systems for CubeSats, smallsats, and terrestrial military platforms.



VULCAN WIRELESS

NSR-SDR-K/Ka-HDR-DVB

A high-speed K/Ka-band software-defined radio transceiver offering DVB-S2 uplink/downlink with variable modulation and coding for LEO, GTO, and Cislunar/Lunar missions.

Frequency band	20-21.2 GHz Transmitter / 30-31 GHz Receiver (SDA Tranche)
Configuration	Full-Duplex
Downlink speed	Low Mbps to >500 Mbps
Uplink speed	Low Mbps to >500 Mbps
RF power	5 Watts, Variable RF power

price on request



VULCAN WIRELESS

NSR-SDR-S/S

Full-duplex S-band software-defined radio transponder in a 1/3U CubeSat form factor.

Form factor	1/3U CubeSat
Frequency band	S-band
RF power output	up to 4 W
Duplex	Full-duplex
Mission life	5 years

price on request



VULCAN WIRELESS

NSR-SDR-X/S HP

High-power variant of the X/S-band transponder with >10 W linear RF output for CubeSat missions.

Frequency bands	X/S-band
RF power output	>10 W (linear)
Form factor	CubeSat-compatible
Mission life	5 years
Data protocol	DVB-S2

price on request

VULCAN WIRELESS

NSR-SDR-MUOS

Sub-1/2U CubeSat MUOS and legacy UHF SATCOM functional terminal with NSA Type-1 encryption.

Form factor	<1/2U CubeSat
Encryption	NSA TYPE-1
Mission life	5 years
Waveforms	Spread-spectrum anti-jam MUOS; legacy UHF SATCOM
Navigation	Integrated GPS

price on request



VULCAN WIRELESS

NSR-SDR-X/S

Full-duplex X/S-band SDR transponder for high-rate downlink/uplink on LEO, GTO, and cislunar missions.

Frequency band	X-band
Downlink data rate	low Mbps to >500 Mbps
Uplink data rate	low Mbps to >500 Mbps
Modulation/coding	DVB-S2, variable modulation and coding
RF power output	5 W SSPA (variable)

price on request

Japanese space-communications startup building WarpHub InterSat, a MEO optical inter-satellite data relay network for near-real-time downlink of LEO Earth-observation data.

WARPSPACE INC.

HOCSAI Multi-Protocol Optical Modem

Satellite-installable multi-protocol optical communications modem enabling interoperability between satellites equipped with different optical terminal standards.

Product type	Multi-protocol optical communications modem (satellite-installable)
Link types supported	Space-to-space (ISL) and space-to-ground
Protocol support	Multi-standard (interoperable across different optical terminal vendors)
Transmission medium	Free-space optical (laser)
Key advantage vs RF	Higher throughput, reduced interception risk, no ITU spectrum coordination

price on request

WORK Microwave

WORK Microwave develops and manufactures RF electronics technologies and products. They create innovative RF electronics and digital signal processing, including satellite communication, optical ground station, virtualized DIFI solutions, d



WORK MICROWAVE

AX-60/AX-61 IP Modem

The AX-60/AX-61 IP Modem is a DVB-S2X compliant modem designed for high-speed IP connectivity with an integrated encapsulator, suitable for governmental, IP networking, and space a

Modulations	up to 256APSK
Symbolrates	100 ksps to 75 Msps
Data rate	up to 360 Mbps
IP packet processing	up to 80000 pps
Encapsulation	GSE and MPE

price on request

datasheet



WORK MICROWAVE

AX-80 Wideband Modem

The AX-80 Satellite Modem provides full IP connectivity over DVB links in the Gigabit-per-second-class, enabling high-speed integration into terrestrial networks with 10G Ethernet

Symbolrates	up to 500 Msps
Data rate	up to 3 Gbps per direction
Roll-Off	35%, 25%, 20%, 15%, 10%, 5%

price on request

datasheet

Xiphos Technologies

Xiphos Technologies designs low-SWaP Zynq and Versal-based computing modules and on-board computers for SmallSats, offering 120+ years of

cumulative flight heritage.



XIPHOS TECHNOLOGIES
Q8J SDR Daughterboard

The Xiphos Q8J SDR is an extremely high-performance software-defined radio platform built on the Xilinx Zynq UltraScale+ MPSoC (via the Q8J host board) and the Analog Devices AD936

RF transceiver	Analog Devices AD9361 RF agile transceiver
RF outputs	2x
RF inputs	2x
PI memory	1 GB DDR3
Flash	4 GB NAND Flash

price on request

Xona Space Systems

UNITED STATES · 2019 · 1 PRODUCT

Xona Space Systems is building Pulsar, the world's first commercial LEO navigation constellation delivering centimeter-level PNT with 100x stronger signals than GPS.



XONA SPACE SYSTEMS
Pulsar Constellation (PNT Service)

Xona's commercial LEO satellite constellation delivering an independent, GPS-alternative positioning, navigation, and timing signal with centimeter-level accuracy.

Orbit type	Low Earth Orbit (LEO), sun-synchronous
Planned constellation size	258-300 satellites (phased rollout)
Signal bands	Dual-band X1 and X5, compatible with GNSS L1/L5 receiver bands
Signal strength	Up to -136 dBW, ~100x stronger than GPS L1 C/A
Position accuracy	~2 cm x 4 cm (horizontal x vertical)

price on request

Manufacturers in this sector

AAC Clyde Space

Sweden · 1999 · 5 products

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from satellite components to data analytics for various applications.

AAC SpaceQuest (AAC Clyde Space subsidiary)

United States · 1 product

AAC Clyde Space provides small satellite technologies and space-based data services, offering end-to-end solutions from components to data analytics.

ADDNICS Corporation

Japan · 7 products

Japanese aerospace electronics manufacturer specializing in wireless communication systems for micro, nano, and CubeSat satellite platforms, producing S-band, X-band, and UHF telemetry trans

Addvalue Technologies

Singapore · 1996 · 1 product

Addvalue designs and manufactures satellite-based communication and digital broadband products and solutions for connectivity across various applications, including space.

Aitech Systems

United States · 2 products

Designer and manufacturer of rugged, high-performance embedded computing solutions for aerospace, defense, and space applications.

Akash Systems

United States · 2 products

US developer of GaN-on-Diamond satellite radios and power amplifiers delivering 3-5x higher data rates through proprietary Diamond Cooling technology.

ALTER Technology

Spain · 1986 · 1 product

ALTER Technology provides laboratory and engineering services for high-reliability EEE components, specializing in microelectronics and optoelectronics engineering, procurement, assembly, an

Alya Space

Brazil · 2019 · 1 product

Brazilian nanosatellite company founded 2019 in Salvador-Bahia developing a planned 216-satellite LEO constellation for environmental monitoring and climate observation.

Alén Space

Spain · 2008 · 5 products

Alén Space designs, manufactures, and operates small satellites, providing end-to-end mission development services and advanced communication platforms, subsystems, and components for space

Anywaves

France · 2017 · 3 products

French manufacturer of flight-proven space antennas, software-defined radio platforms, and RF payload technologies for satellite and launcher missions, with heritage on 200+ missions.

Aphelion Orbitals

United States · 2017 · 1 product

Aphelion Orbitals is a New Jersey-based launch vehicle company developing the Helios nanosatellite launch system for regular, scheduled orbital access at low cost.

Argotec Srl

Italy · 2008 · 1 product

Argotec is an Italian spacecraft manufacturer that designed and operates the ArgoMoon CubeSat and develops satellite platforms and subsystems for ESA and commercial missions.

Arralis

Ireland · 2 products

Irish developer of mmWave and RF/microwave MMICs, modules, phased-array antennas, and radar/comms front-end systems for satellite, aerospace and defense markets.

Astranis Space Technologies

United States · 2015 · 1 product

Astranis Space Technologies designs and manufactures small, powerful geostationary satellites with digital processing technology and proprietary SDRs for high orbits.

AVCOM of Virginia

United States · 2 products

AVCOM of Virginia is a satellite communications equipment manufacturer founded in 1976, specializing in spectrum analyzers, satellite beacon receivers, and RF signal monitoring products.

Azista Space (Azista Aerospace)

India · 3 products

Indian manufacturer of spaceborne systems, payloads, and satellite-enabled ground systems including SATCOM and hydrometeorology sensors.

Beyond Gravity (ex-RUAG Space)

Switzerland · 1993 · 3 products

Swiss-Swedish space components manufacturer providing satellite structures, thermal control products, payload electronics, and antennas for commercial and institutional programs.

celtonn

Ireland · 2 products

Celtonn designs and manufactures space-qualified RF components and custom RF solutions, including W-Band and D-Band hardware, from its facility in Dublin, Ireland.

CesiumAstro

United States · 1 product

US manufacturer of software-defined, phased-array communication systems and payloads for satellite constellations, defense, and space applications.

Emhiser Research

United States · 1978 · 11 products

US manufacturer of airborne and ground-based RF telemetry transmitters, receivers, command equipment and amplifiers for aerospace and defense range telemetry.

Emxys

Spain · 2007 · 2 products

Emxys is a Spanish space electronics company specialising in advanced onboard computers, power systems, optical transceivers, and complete nanosatellite platforms for data-intensive space mi

EnduroSat

Bulgaria · 2015 · 3 products

Software-flexible CubeSat platforms (1U–16U+), shared-satellite hosted-payload service.

EUROSATCOM

France · 2003 · 1 product

French SATCOM equipment distributor and integrator; ground station hardware across L to Q band; founded 2003 in Les Ulis.

Gatehouse Satcom

Denmark · 1992 · 5 products

Danish embedded software specialist providing satellite communications protocol stacks, waveforms and test tools for terminals, satellites and networks.

GAUSS Srl

Italy · 2012 · 1 product

Italian company specializing in complete lifecycle management of CubeSats and NanoSatellites: design, manufacturing, subsystems, ground stations and deployers.

General Dynamics Mission Systems

United States · 1954 · 1 product

General Dynamics Mission Systems is a defense electronics manufacturer and integrator providing mission-critical solutions for land, sea, air, space, and cyber domains.

Glavkosmos

Russia · 1985 · 10 products

Glavkosmos coordinates international human spaceflight projects, facilitates satellite launches, develops and supplies rocket components, and provides equipment for space crews.

Globalstar (C-3 next-gen)

United States · 1991 · 1 product

Globalstar provides satellite-based solutions for connectivity, asset tracking, and personnel safety across various industries, including government, transportation, and energy.

GomSpace

Denmark · 2007 · 10 products

GomSpace is a Danish CubeSat manufacturer producing satellite platforms, subsystems, and end-to-end mission solutions. Products include the NanoCom radio modules, NanoPower EPS, and complete

Guodian Gaoke (Tianqi Satellite)

China · 2015 · 4 products

Guodian Gaoke designs, develops, and operates the Tianqi Constellation, China's first low-Earth orbit satellite IoT network, providing global communication services for various industries an

Haigh Farr

United States · 1969 · 1 product

Haigh-Farr designs, manufactures, and tests conformal and non-conformal antennas for high-performance aerospace vehicles.

HIRCOM

France · 1994 · 1 product

French manufacturer of radiation-resistant UHF TMTC cards for CubeSat and small satellite communications; a TRAD brand.

IMT (Ingegneria Marketing Technologies)

1991 · 1 product

IMT designs and develops Nano/Micro-satellites and on-board units for commercial, scientific, and defense applications, and provides EEE parts engineering.

Innoflight

United States · 2004 · 3 products

Innoflight, Inc. is a US-based aerospace electronics company headquartered in San Diego, California, developing advanced software-defined radios (SDR), cryptographic communication systems, a

IQ Spacecom

1999 · 3 products

IQ Spacecom designs and manufactures high-performance radio communication solutions, including SDR transceivers, antennas, and space switches, for small satellites and ground equipment.

ISS Reshetnev

Russia · 1959 · 1 product

Russian satellite manufacturer in Zheleznogorsk, Siberia; GLONASS-K/M navigation, Express GEO comms, Luch data relay, and Yamal satellites; 1,400+ spacecraft built.

Leijenaar Electronics

Netherlands · 2021 · 1 product

Leijenaar Electronics B.V. provides professional RF/microwave design services, prototyping, and testing for applications including SATCOM and satellite transponders.

MBI Group

1 product

MBI Group (MBI S.p.A.) is an Italian aerospace, defense, and advanced technology company headquartered in Rome, Italy, providing engineering services, system integration, and technology solu

Mbryonics

Ireland · 2014 · 1 product

Ireland's largest photonics company, building end-to-end optical communication systems for space connectivity.

Meisei Electric

Japan · 1 product

Meisei Electric manufactures comprehensive environmental measurement systems. Their products include measuring instruments for ground use, sondes for stratosphere use, and observation equipm

Mercury Systems

United States · 5 products

Mercury Systems delivers end-to-end processing ecosystems for aerospace and defense systems. They provide signal, compute, data management, display, and secure products. They have supported

NanoAvionics

Lithuania · 2014 · 3 products

Pre-integrated nanosatellite buses (3U–16U+ MP42), green chemical propulsion, mission integration.

NEC Space Technologies

Japan · 1954 · 2 products

Japanese electronics company providing satellite bus systems, communication payloads, and ground systems for Japanese government and commercial space programs.

Needronix

Poland · 2017 · 1 product

Polish smallsat hardware company designing and manufacturing components and subsystems for CubeSats and small satellites, serving commercial and institutional space customers across Europe.

NewSpace Systems (NSS)

South Africa · 1 product

NewSpace Systems (NSS) manufactures spacecraft components and sub-systems, focusing on Guidance, Navigation, and Control (GNC) products for commercial spacecraft manufacturers globally.

OutThere Astronautics

New Zealand · 2020 · 1 product

OutThere Astronautics is a University of Auckland spin-out developing plug-and-play optical mesh networking modules that let satellites communicate directly with each other, reducing depende

Paradigma Technologies

Germany · 3 products

Paradigma Technologies designs and manufactures mmWave telecommunication systems for small satellites, cubesats, and SOTM applications.

PicoSaTs

Italy · 4 products

Italian manufacturer of miniaturized RF transponders and horn antennas for small satellites and CubeSats, specialising in K-, Ka-, and Ku-band communications hardware.

Plan-S (Connecta)

Turkey · 2021 · 2 products

Plan-S designs, manufactures, launches, and operates satellite systems for IoT connectivity (Connecta) and Earth observation data analytics (Observe), with 21 satellites launched.

Pyxis Space

Germany · 1 product

German manufacturer of miniature optoelectronic ADCS components for small satellites and CubeSats.

Rakon Limited

New Zealand · 1967 · 1 product

Global leader in frequency control and timing solutions — space-qualified oscillators, GNSS receivers and S-band transceivers — with 40+ years of flight heritage.

ReliaSat

United Kingdom · 2020 · 4 products

ReliaSat is a UK manufacturer of Ka-band RF and mm-wave systems, transceivers, phased array antennas, and MMICs for satellite, aerospace, defence, and 5G markets.

Saab Space

Sweden · 1937 · 1 product

Swedish defense and aerospace company providing satellite transponders, on-board computers, and telecommunications systems for European and international space programs.

Satellize

India · 2018 · 1 product

Independent space firm building full-stack sovereign space programs -- satellites, ground stations, comms, analytics, and mission control -- for allied nations.

Satlab A/S

Denmark · 2013 · 5 products

Danish manufacturer (Aalborg) of compact, radiation-tolerant SDR and RF transceivers for satellite TT&C and payload data, including S-band, X-band, AIS, ADS-B, LoRa, and maritime VDES product

sci_Zone / QuickSAT

United States · 2003 · 1 product

sci_Zone, Inc. is a small engineering firm that designs satellite communication radios and flight management software for CubeSats, UAVs, and IoT applications, leveraging the Globalstar LEO

SkyFox Labs s.r.o.

Czech Republic · 2014 · 1 product

Czech manufacturer (Prague) of Space-Friendly CubeSat and PocketQube subsystems: GNSS/AIS/ADS-B antennas, BusCORE radio terminals, ADCS sensors, and dosimeters, in continuous orbital operati

Smiths Interconnect - Space

United Kingdom · 1 product

Smiths Interconnect designs and manufactures high-reliability electronic components, microwave, optical, and radio frequency products for aerospace, defense, medical, semiconductor test, and

Space Inventor ApS

Denmark · 2015 · 1 product

Space Inventor ApS is a Danish second-generation NewSpace company providing non-ITAR CubeSat, nanosat, and microsat components, platforms, and turnkey satellite missions with full vertical i

SpaceLink

United States · 2019 · 1 product

SpaceLink builds a MEO relay satellite constellation providing secure, continuous communications for LEO spacecraft, defense users, civil agencies, and commercial human spaceflight.

Spacemanic s.r.o.

Slovakia · 2017 · 1 product

Slovak-Czech full-service nanosatellite mission provider offering CubeSat platforms (1U-16U), onboard subsystems, rideshare launch integration, and ground segment services.

SPUTNIX

Russia · 2011 · 6 products

SPUTNIX is a Russian manufacturer of nanosatellite and microsatellite platforms, onboard subsystems and ground infrastructure, operating as a subsidiary brand of Sitronics Group.

Stellar Exploration, Inc.

United States · 1 product

Affordable hardware development for miniaturized aerospace systems, with a proven flight-heritage track record in nanosatellite power, propulsion and RF tracking subsystems.

StenSat Group LLC

United States · 1998 · 2 products

Small-satellite RF subsystems and picosatellite engineering support based in the USA.

Syrlinks

France · 2011 · 11 products

Developer of miniaturized RF communication subsystems for small satellites, including X-band transmitters, S-band transceivers, GNSS receivers, and spectrum monitoring payloads. Now a divisi

TALOS GmbH

Germany · 2022 · 1 product

TALOS develops satellite-based IoT technology and CubeSat payloads, transforming natural movement into global intelligence from space.

TEKEVER

Portugal · 2001 · 1 product

TEKEVER develops AI-driven autonomous unmanned aerial systems and satellite subsystems for civil and defence missions.

Teledyne Defence & Space

United Kingdom · 7 products

UK unit of Teledyne Technologies: RF and microwave modules, filters and transceivers for space and defence, including the QubeFlex smallsat transceiver.

Terma

Denmark · 1949 · 1 product

Terma is a global aerospace, defense, and security company that develops and manufactures radar systems, aircraft self-protection systems, and space components like star trackers for interna

Tethers Unlimited, Inc. (AMERGINT)

United States · 1994 · 2 products

US developer of deployable space structures, the SWIFT software-defined radio, HYDROS water-electrolysis thrusters and in-space manufacturing tech; now part of ARKA Group (formerly AMERGINT)

Tiger Innovations, Inc.

United States · 1997 · 1 product

US aerospace electronics firm (General Atomics subsidiary); solar array simulators, RF devices, EGSE, and payload testing for space programs.

Triad RF Systems

United States · 2016 · 26 products

New Jersey-based manufacturer of GaN power amplifiers and bi-directional amplifiers for military, commercial, and space radio systems covering 30 MHz to 8.5 GHz in compact, ruggedized module

Vulcan Wireless

United States · 5 products

Vulcan Wireless is a Carlsbad, California-based manufacturer of software-defined radios (SDRs), RF transceivers, and encrypted communication systems for CubeSats, smallsats, and terrestrial

WARPSPACE Inc.

Japan · 2016 · 1 product

Japanese space-communications startup building WarpHub InterSat, a MEO optical inter-satellite data relay network for near-real-time downlink of LEO Earth-observation data.

WORK Microwave

Germany · 2 products

WORK Microwave develops and manufactures RF electronics technologies and products. They create innovative RF electronics and digital signal processing, including satellite communication, opt

Xiphos Technologies

Canada · 2003 · 1 product

Xiphos Technologies designs low-SWaP Zynq and Versal-based computing modules and on-board computers for SmallSats, offering 120+ years of cumulative flight heritage.

Xona Space Systems

United States · 2019 · 1 product

Xona Space Systems is building Pulsar, the world's first commercial LEO navigation constellation delivering centimeter-level PNT with 100x stronger signals than GPS.

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