NEWSPACE MARKET

NEWSPACE MARKET · SECTOR CATALOGUE

Optical Communications

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

28	19	13	0
PRODUCTS	MANUFACTURERS	COUNTRIES	WITH DATASHEETS

newspacemarket.com/catalogues/optical-comms/

as of 2 September 2026

ABOUT THIS CATALOGUE

What is inside

This catalogue lists **28 optical communications products** offered by **19 manufacturers** across **13 countries**. Of those, 0 carry a manufacturer datasheet and 0 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 4 · Lithuania 2 · Germany 2 · Italy 2 · India 1 · Netherlands 1 · Switzerland 1 · Russia 1 · Estonia 1 · China 1 · Ireland 1 · United Kingdom 1 · Singapore 1

OVERVIEW

All products at a glance

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Apolink	Apolink	United States	Coverage: 24/7 persistent, pole-to-pole	on request
AstroLink Laser Communication Terminal	AstroGate Labs	India	Data rate (Downlink): Up to 1 Gbps	on request
ATLAS-2	Astrolight	Lithuania	Tx/Rx wavelength: 1553.3 / 1536.6	on request
ATLAS-X-MINI	Astrolight	Lithuania	Transmit (downlink) wavelength: 1553.3 nm and 1536.6 nm	on request
CENTAURI 25G	Transcelestial	Singapore	Data rate: 25 Gbps, full-duplex	on request
Chascii Single Optical Terminal (SOT)	Chascii	United States	Form factor (SOT): 1U	on request
DOG-DA Free Space Optical Detector	WORK Microwave	Germany	—	on request
DOG-DA4 Free Space Optical Detector	WORK Microwave	Germany	Symbol Rates: 100 Msps to 10 Gsps (O3K)	on request
DOG-F1 Optical Modem Front-End Digitizer	WORK Microwave	Germany	O3K symbol rate: up to 10 Gsps	on request
DOG-M1 Multi-Mission Optical Modem	WORK Microwave	Germany	O3K symbol rate: up to 10 Gsps	on request
Eagle-1 Optical Modem	CELESTIA Satellite Test & Simulation	Netherlands	Form factor: 19" rack mountable	on request
Free Space Optical Communications (FSOC)	QinetiQ Space	United Kingdom	Demonstrated range: >100 km (HAPS-to-HAPS)	on request
HAWK Optical Ground Station	Mynaric	Germany	Aggregate throughput: 200 Gbps per site	on request
Intersattelite Optical Communication Terminal	Glavkosmos	Russia	Purpose: Providing communications in the constellation of satellites on LEO…	on request
Intersattelite optical communication terminal 2	Glavkosmos	Russia	Design life: 7 years	on request
LaserCube Laser Communication Terminal	Stellar Project	Italy	Form factor: 2U (100 × 100 × 200 mm)	on request
LaserFleet Optical Inter-Satellite Links	LaserFleet (Shenzhen Hangxing Optical Space Technology)	China	Technology: Optical inter-satellite links (laser communications)	on request
OAM Optical Communication Terminal	SatEnlight	Italy	Multiplexing technique: Orbital Angular Momentum (OAM) mode multiplexing	on request
OGS-2.5	Astrolight	Lithuania	Aperture Size (Option A): 355 mm (14 ")	on request
Optical Communication Solutions for Aerospace	Golbriak Space	Estonia	Dimensions: 10x10x20 cm (2U) terminal + 2U gimbal	on request

PRODUCT	MANUFACTURER	COUNTRY	KEY SPECIFICATION	PRICE
Optical Ground Stations	General Atomics Synopta GmbH	Switzerland	S-aogs telescope size: > Ø 0.5 m	on request
Optical Laser Satellite Backbone Network	Laser Light Communications	United States	Technology: All-optical FSO (free-space optical) ISLs — laser inter-satelli…	on request
POLARIS	Astrolight	Lithuania	Link Distance: Horizon limited	on request
Satellite Optical Laser Link (Inter-Satellite FSO)	Space Union	Lithuania	Link type: Free Space Optical (FSO) laser inter-satellite link	on request
Scotty LEO User Terminal	Skyloom Global Corp.	United States	Network access: Enables access to Skyloom's network via GEO	on request
Skyloom Optical Data Transport Network (V'GER, Scotty, Uhura, Kirk)	Skyloom Global Corp.	United States	V'ger data rate: 1-10 Gbps	on request
STARCOM Optical Communications Terminal	Mbryonics	Ireland	Usable aperture: 50% larger than competitors (per manufacturer)	on request
STARLIGHT Optical Modem and Amplifier	Mbryonics	Ireland	Modem + acu mass: < 3.5 kg	on request

Products by manufacturer

Apolink

UNITED STATES · 1 PRODUCT

Apolink is a Y Combinator-backed space startup building a LEO data relay constellation for 24/7 real-time satellite connectivity using hybrid RF and optical links.

APOLINK

Apolink

Apolink is an on-demand real-time communications service that keeps satellites continuously connected for telemetry and command links.

Coverage	24/7 persistent, pole-to-pole
Link types	Hybrid RF + optical (FSO)
Target orbits	LEO, any orbit (relay)
Partners	GomSpace (RF), RBC Signals, Space Compass
Regulatory	ITAR/EAR compliant, US operations

price on request

AstroGate Labs

INDIA · 2017 · 1 PRODUCT

AstroGate Labs is a Bengaluru-based space startup pioneering laser communication terminals for nano and small satellites, enabling 1 Gbps space-to-ground data downlinks.

ASTROGATE LABS

AstroLink Laser Communication Terminal

SWaP-optimized laser communication terminal for CubeSats and NanoSats, 1 Gbps downlink at 1550 nm, integrated fine pointing, ITAR-free, TRL 7.

Data rate (Downlink)	Up to 1 Gbps
Wavelength	1550 nm
Pointing accuracy	±1° bus pointing tolerance
Ground beacon acquisition	±5°
Dimensions	95 × 95 × 80 mm

price on request

Astrolight

LITHUANIA · 4 PRODUCTS

Astrolight develops laser communication terminals for space and defense applications. They offer space-to-Earth laser communication terminals and optical ground stations.

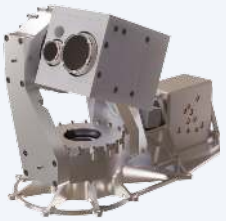
ASTROLIGHT

ATLAS-2

ATLAS-2 is Astrolight's second generation SDA compatible low SWaP laser communication terminal designed for space-to-ground and space-to-space links.

Tx/Rx wavelength	1553.3 / 1536.6
Tx Power	< 2 W
Transmit Divergence	±63 µrad at 1/e2
Transmit Data Rate	2.5 Gbps
Fine Pointing Resolution	< 15 µrad

price on request



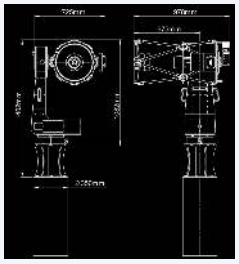
ASTROLIGHT

ATLAS-X-MINI

ATLAS-X-MINI is Astrolight's gimbal-equipped optical communication terminal for space-to-ground and space-to-space links, building on ATLAS terminals already deployed in orbit.

Transmit (downlink) wavelength	1553.3 nm and 1536.6 nm
Transmit (downlink) optical power	≥ 3500 mW
Communication standard	SDA OCT 3.1 and newer
Tracking & receive (uplink) wavelengths	1536.6 nm and 1553.3 nm
Transmit (downlink) data rate	Up to 2.5 Gbps

price on request



ASTROLIGHT

OGS-2.5

Astrolight's OGS-2.5 is a compact and cost-effective satellite optical communication terminal for high data rate applications.

Aperture Size (Option A)	355 mm (14 ")
Aperture Size (Option B)	508 mm (20 ")
Operational Wavelength	1536 nm & 1553 nm
Supported Modulations	OOK
Downlink Data Rate	1.25/2.5/12.5 Gbps

price on request

ASTROLIGHT

POLARIS

POLARIS is a small, gimballed free space optical (FSO) communication solution designed for large naval vessels and smaller unmanned surface vehicles (USVs).

Link Distance	Horizon limited
Data rate	Up to 1 Gbps
Optical Power	Up to 4 W
Electrical Power	200 W
Mass	16 kg

price on request

CELESTIA Satellite Test & Simulation

NETHERLANDS · 1985 · 1 PRODUCT

Celestia Satellite Test & Simulation provides ground-based solutions for satellite simulation, testing, communication, and data processing, including EGSE, TT&C, and Optical Modems.

CELESTIA SATELLITE TEST & SIMULATION

Eagle-1 Optical Modem

Optical modem optimized for communication with the EAGLE-1 QKD satellite — classical optical terminal validation, programmable tunable seeds.

Form factor	19" rack mountable
Flight heritage	EAGLE-1 QKD satellite (validated)

price on request

Chascii

UNITED STATES · 2022 · 1 PRODUCT

Pasadena-based developer of free-space optical communication terminals for drones, balloons, and spacecraft — from gigabit SOT/LROT hardware to the INSPIRE cislunar optical internet.

CHASCII

Chascii Single Optical Terminal (SOT)

Compact 1U free-space optical terminal delivering gigabit connectivity for drones, balloons, and spacecraft — 100° steering, dual 850/1550 nm wavelengths, 15W.

Form factor (SOT)	1U
Power consumption	15 W
Data rate	Gigabit
Wavelengths	850 nm, 1550 nm
Steering angle	100 degrees

price on request

General Atomics Synopta GmbH

SWITZERLAND · 2004 · 1 PRODUCT

Swiss opto-electronics company (part of General Atomics since 2021) developing laser-communication beam-pointing systems, optical ground stations, and

free-space/fiber optical communication components.

GENERAL ATOMICS SYNOPTA GMBH

Optical Ground Stations

Stationary and transportable adaptive optical ground stations for laser communication with satellites in GEO/MEO/LEO or deep space.

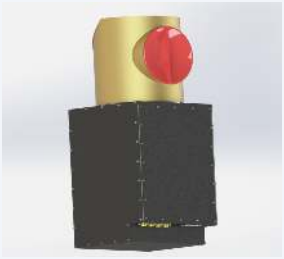
S-aogs telescope size	> Ø 0.5 m
T-aogs telescope size	Ø 0.25 m to Ø 1 m
Data rate with GEO satellite	> 2 Gbit/s (uplink and downlink)
Feeder link to GEO satellite	> 20 Gbit/s uplink, > 10 Gbit/s downlink, scalable up to Tbit/s
Supported wavelengths	e.g. 1064 nm, 1550 nm

price on request

Glavkosmos

RUSSIA · 1985 · 2 PRODUCTS

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



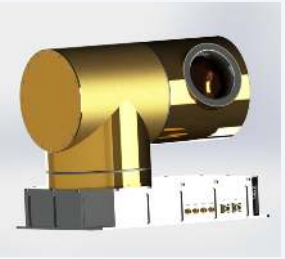
GLAVKOSMOS

Intersattelite 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

Intersattelite 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 fo

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

Golbriak Space

ESTONIA · 1 PRODUCT

Golbriak Space designs and manufactures optical communication terminals and AI-enabled data hubs for distributed satellite missions, providing fast, secure, and affordable space communications.

GOLBRIAK SPACE

Optical Communication Solutions for Aerospace

Golbriak Space provides optical communication terminals and AI-enabled Data Hubs for satellites, enabling high-speed, secure, and affordable data exchange for distributed satellite

Dimensions	10x10x20 cm (2U) terminal + 2U gimbal
Mass	1.8 kg
Power consumption	15 W @ 7-12V
Output laser power	1 W
Datarate (goodput)	2.5 Gbps (SDA/CCSDS compatible)

price on request

Laser Light Communications

UNITED STATES · 1 PRODUCT

US developer of a high-capacity global optical satellite communications network using free-space laser technology to deliver secure, high-throughput broadband anywhere on Earth.

LASER LIGHT COMMUNICATIONS

Optical Laser Satellite Backbone Network

Laser Light Communications' all-optical satellite backbone — LEO/MEO satellites with optical inter-satellite links providing high-throughput, low-latency global data transport bypa

Technology	All-optical FSO (free-space optical) ISLs — laser inter-satellite links
Advantage	Terabit/s capacity per link; faster than undersea fiber (vacuum vs. glass)
Architecture	LEO/MEO constellation with optical mesh ISLs and optical/RF ground gateways
Model	Wholesale backbone provider to telecoms/ISPs/cloud (not retail)
Spectrum	No RF spectrum licensing required (optical bands unregulated)

price on request

LaserFleet (Shenzhen Hangxing Optical Space Technology)

CHINA · 2017 · 1 PRODUCT

Chinese commercial aerospace startup building a low-Earth-orbit laser (free-space optical) communication satellite network as an alternative to traditional RF satellite links.

LASERFLEET (SHENZHEN HANGXING OPTICAL SPACE TECHNOLOGY)

LaserFleet Optical Inter-Satellite Links

Chinese laser communications company (Shenzhen Hangxing Optical Space Technology) developing optical inter-satellite links for LEO constellation networks.

Technology	Optical inter-satellite links (laser communications)
Applications	LEO constellation data relay
Country	China

price on request

Mbryonics

IRELAND · 2014 · 2 PRODUCTS

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

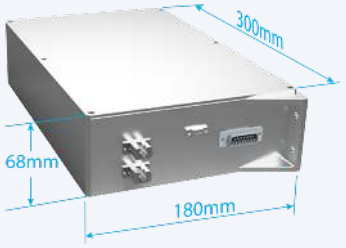
MBRYONICS

STARCOM Optical Communications Terminal

Laser communications terminal for optical inter-satellite links and space-to-ground links — up to 400 Gbps, 80,000+ km link distance, selected by DARPA, ESA, and Airbus Defence and

Usable aperture	50% larger than competitors (per manufacturer)
Link distance	80,000+ km
Data rate	Up to 400 Gbps (by 2027)
Standards compatibility	SDA Standard v3.0, EST, ESTOL, CCSDS
Wavelength	1550 nm (third-party modem compatible)

price on request



MBRYONICS

STARLIGHT Optical Modem and Amplifier

Fibre-coupled optical modem and Antenna Control Unit for LEO/MEO/GEO optical inter-satellite and space-to-ground links — under 3.5 kg for modem+ACU, controls up to 4 STARCOM units.

Modem + acu mass	< 3.5 kg
Modem + acu + booster + lna mass	< 4 kg
Total oct mass (1x STARCOM optical head)	< 14 kg
Standards	SDA 3.1, IEEE 802.3 Ethernet, FEC
Orbit compatibility	LEO, MEO, GEO

price on request

Mynaric

GERMANY · 2009 · 1 PRODUCT

Mynaric manufactures optical communication terminals for air, space, and mobile applications, enabling high-speed, secure, and license-free laser communication networks.

MYNARIC

HAWK Optical Ground Station

Optical feeder link ground station for LEO/MEO/GEO satellite constellations — 200 Gbps aggregate throughput per site, adaptive optics, compatible with CONDOR Mk3 and TETRA space te

Aggregate throughput	200 Gbps per site
Communication type	Free-space optical (FSO)
Availability	High (site diversity + adaptive optics)
Compatible terminals	CONDOR Mk3, TETRA
Applications	Feeder links for LEO/MEO/GEO constellations

price on request

QinetiQ Space

UNITED KINGDOM · 2001 · 1 PRODUCT

British defence technology company delivering mission-critical space capabilities — domain awareness, secure communications, PNT, electric propulsion, and test & evaluation — with over half a century of heritage from the Royal Aircraft Esta

QINETIQ SPACE

Free Space Optical Communications (FSOC)

Laser-based high-speed directional communication system for air, land, maritime, and space platforms — demonstrated >100 km range with simultaneous ISR sensing capability.

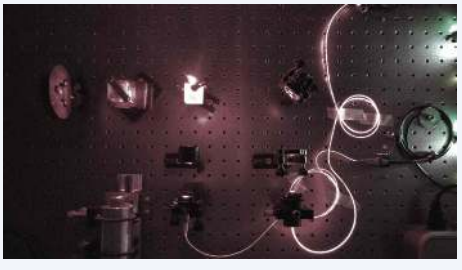
Demonstrated range	>100 km (HAPS-to-HAPS)
Spectrum	License-free (optical)
Beam type	Directional point-to-point
Dual mode	Communications + ISR sensing simultaneously
Domains	Air, Land, Maritime, Space (LEO, inter-satellite)

price on request

SatEnlight

ITALY · 2022 · 1 PRODUCT

SatEnlight develops next-generation free-space optical communication systems that use Orbital Angular Momentum (OAM) to multiply channel capacity, enabling faster, more scalable, resilient and secure links for space and terrestrial networks



SATENLIGHT

OAM Optical Communication Terminal

Free-space optical communication terminal that uses Orbital Angular Momentum (OAM) multiplexing and a patented multi-aperture receiver to multiply link capacity beyond conventional

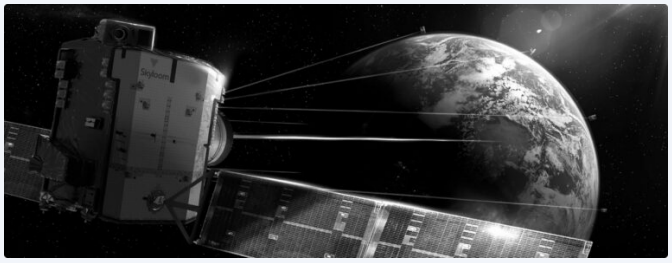
Multiplexing technique	Orbital Angular Momentum (OAM) mode multiplexing
Receiver architecture	Patented multi-aperture receiver with parallel channel demultiplexing
Turbulence compensation	Integrated turbulence mitigation module (patent-pending electronics)
Target links	Satellite-to-ground, inter-satellite, airborne and terrestrial free-space optical
Key benefit	Capacity multiplication without additional spectrum; increased link security via mode-sele

price on request

Skyloom Global Corp.

UNITED STATES · 2017 · 2 PRODUCTS

US manufacturer (Colorado) of optical inter-satellite communication terminals and GEO relay infrastructure, now a subsidiary of IonQ, Inc.



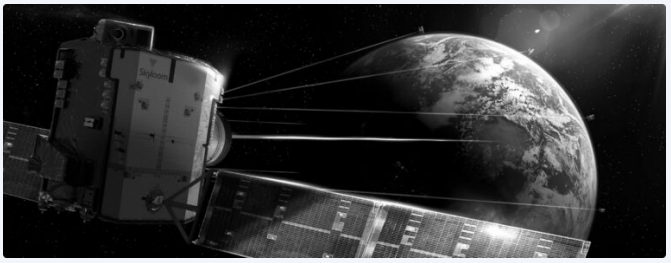
SKYLOOM GLOBAL CORP.

Scotty LEO User Terminal

LEO user optical terminal enabling multi-Gbps LEO-to-GEO data relay via Skyloom's optical network, up to 20 Gbps.

Network access	Enables access to Skyloom's network via GEO
Data rate	Supports LEO-GEO links up to 20 Gbps
Field of regard	Hemispherical Field Of Regard
Acquisition and tracking	Autonomous acquisition and tracking
Standards compliance	Interoperable with SDA OCT Standard

price on request



SKYLOOM GLOBAL CORP.

Skyloom Optical Data Transport Network (V'GER, Scotty, Uhura, Kirk)

Skyloom is deploying an optical data transport network in space, leveraging small geostationary relay nodes to provide low-latency and high-capacity data transportation services fo

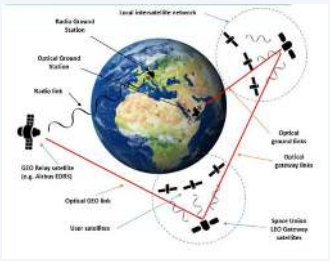
V'ger data rate	1-10 Gbps
V'ger link types	LEO-LEO, LEO-Ground, LEO-Airborne, LEO-Maritime
Scotty link type	LEO-GEO
Scotty LEO-GEO link speed	up to 20 Gbps
Scotty field of regard	Hemispherical

price on request

Space Union

LITHUANIA · 1 PRODUCT

Space Union is a Lithuanian deep-tech company specializing in laser-directed energy systems for C-UAV defense, space debris mitigation, and satellite optical communications.



SPACE UNION

Satellite Optical Laser Link (Inter-Satellite FSO)

Space Union's Satellite Optical Laser Link is an extra-high-throughput free-space optical (FSO) laser communication system designed for inter-satellite and satellite-to-gatew

Link type	Free Space Optical (FSO) laser inter-satellite link
Operating environment	Low Earth Orbit (LEO)
Applications	5G extension, IoT/GSM integration, quantum key distribution relay
Operator registration	UAB SPACEUNION registered as ITU operating agency
Network integration	Compatible with existing GSM infrastructure for IoT services

price on request

Stellar Project

ITALY · 2016 · 1 PRODUCT

Stellar Project provides proprietary technology and solutions for light satellites, including optical telecommunication systems and space debris analysis tools.

STELLAR PROJECT

LaserCube Laser Communication Terminal

2U laser communication terminal for CubeSats and small satellites delivering >10× higher throughput than RF solutions. Flight-proven on SpaceX Transporter-2.

Form factor	2U (100 × 100 × 200 mm)
Mass	2 kg
Throughput improvement	> 10× vs RF state-of-the-art
Configurations	ISL (up to 2 full-duplex channels) or downlink (1 TX

	channel)
Pointing system	Patent-pending coarse pointing, no fine pointing required

price on request

Transcelestial

SINGAPORE · 2016 · 1 PRODUCT

Wireless laser communication systems (CENTAURI) and optical ground stations; pioneering inter-satellite optical links from Singapore.

TRANSCELESTIAL

CENTAURI 25G

World's first commercially available 25 Gbps wireless laser communication terminal, extending the CENTAURI FSOC platform to higher throughput.

Data rate	25 Gbps, full-duplex
Link range	200 m to 3+ km
Deployment time	as little as 0.5 day per link
Spectrum licensing	Not required
Cost per bit	Lower than CENTAURI 10G

price on request

WORK Microwave

GERMANY · 4 PRODUCTS

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

DOG-DA Free Space Optical Detector

The DOG-DA Free Space Optical Detector is a fibre-coupled optical detector designed for the reception of optical free space communication, featuring a highly responsive InGaAs aval

price on request

WORK MICROWAVE

DOG-DA4 Free Space Optical Detector

The DOG-DA4 Free Space Optical Detector is a fibre-coupled optical detector designed for the reception of optical free space communication, featuring four highly responsive InGaAs

Symbol Rates	100 Msps to 10 Gsps (O3K)

price on request

WORK MICROWAVE

DOG-F1 Optical Modem Front-End Digitizer

The DOG-F1 Optical Modem Front-End Digitizer enhances the DOG-M1 Multi-Mission Optical Modem at early stages of signal processing, sampling multi-Gsps signals.

O3K symbol rate	up to 10 Gsps
Warranty	3 years

price on request

WORK MICROWAVE

DOG-M1 Multi-Mission Optical Modem

The DOG-M1 modem is dedicated to support the processing of optical links between space and Earth, designed for multi-mission support to enable effective ground station design.

O3K symbol rate	up to 10 Gsps
Internal storage	for at least 2 LEO passes at maximum bandwidth

price on request

DIRECTORY

Manufacturers in this sector

Apolink

United States · 1 product

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Switzerland · 2004 · 1 product

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Russia · 1985 · 2 products

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LaserFleet (Shenzhen Hangxing Optical Space Technology)

China · 2017 · 1 product

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Ireland · 2014 · 2 products

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Germany · 2009 · 1 product

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QinetiQ Space

United Kingdom · 2001 · 1 product

British defence technology company delivering mission-critical space capabilities — domain awareness, secure communications, PNT, electric propulsion, and test & evaluation — with over half

SatEnlight

Italy · 2022 · 1 product

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Italy · 2016 · 1 product

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Transcelestial

Singapore · 2016 · 1 product

Wireless laser communication systems (CENTAURI) and optical ground stations; pioneering inter-satellite optical links from Singapore.

WORK Microwave

Germany · 4 products

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

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`https://newspacemarket.com/catalogues/optical-comms/`