

NEWSPACE MARKET · COMPANY PROFILE



Teledyne Defence & Space

United Kingdom · teledyne-aade.com

10

PRODUCTS

1

WITH DATASHEETS

newspacemarket.com/companies/teledyne-defence-space/

as of 20 August 2026



Teledyne Defence & Space

Teledyne Defence & Space, based in Shipley (UK), is part of Teledyne Technologies. The company designs and manufactures RF and microwave subsystems — filters, integrated microwave assemblies, receivers and transmitters — for defence, avionics and space programmes. For the small-satellite market it offers the QubeFlex CubeSat/SmallSat transceiver-modem, providing flexible telemetry and telecommand links in a compact form factor.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

PRODUCTS

Product catalogue



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
Filter Type	Digitally tunable high-Q bandpass
Filter Architecture	Three-section machine combine
Tuning Method	Digital
Coverage	Approximately one octave
Applications	Tactical communications, satellite ground stations, spectrum management

price on request



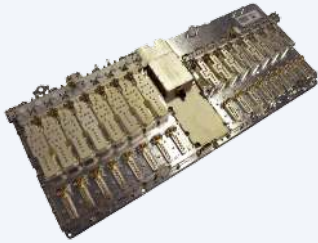
TELEDYNE DEFENCE & SPACE

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)
Applications	ESM, ELINT, EW, space SIGINT payloads

price on request



TELEDYNE DEFENCE & SPACE

Flexible Channeliser

The Teledyne Defence & Space Flexible Channeliser features flexible channel frequency allocation and integrated channel filtering for satellite payload applications. It was sel

Application	Satellite payload - LEO broadband communications
Program	OneWeb satellite constellation (~900 satellites, ~1,800 units)
Function	Flexible channel frequency allocation and integrated channel filtering
ITAR Status	ITAR-free design
Award	Queen's Award for Enterprise 2020: Innovation
Design Origin	UK designed and manufactured

price on request



TELEDYNE DEFENCE & SPACE

High Performance Bandpass Filters

Teledyne Defence & Space designs and manufactures a comprehensive range of high performance bandpass filters covering frequencies from 10 MHz to 40 GHz, spanning all bands from

Frequency Coverage	10 MHz to 40 GHz (L to Ka band)
Filter Types	Lumped element, machine comblne, suspended substrate stripline, tunable, cavity
Configuration Types	Bandpass, bandstop, multiplexers, duplexers
Applications	Satellite payloads, EW, radar, communications
ITAR Status	ITAR-free designs available
Volume Capability	5,000+ units produced for single space program

price on request



TELEDYNE DEFENCE & SPACE

Low Noise Amplifier (LNA)

Teledyne Defence & Space Low Noise Amplifiers (LNAs) are designed to amplify very low power signals while minimising noise addition, ensuring critical signal information is pre

Function	Low noise signal amplification
Technology	GaAs, InP, GaN semiconductor processes
Applications	Space payloads, satellite receivers, airborne radar, maritime, ground radar
ITAR Status	Non-ITAR available
Design Origin	UK designed and manufactured
Design	Custom designs to customer specifications

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
Key Feature	Patented wideband synthesised capability, high dynamic range

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
Applications	ESM direction finding, ELINT, space SIGINT payloads

price on request



TELEDYNE DEFENCE & SPACE

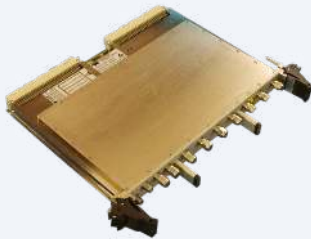
QubeFlex CubeSat/SmallSat Transceiver/Modem

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 corre

Base Modem Tx/Rx Data Rate	2.4kbps to 2.048Mbps
Base Modem Standards	CCSDS/Intelsat
Ethernet Switch	4-port Gigabit Ethernet
Forward Error Correction	CCSDS & Intelsat
IF operation	50 to 180MHz
L-band/S-band operation (standard)	950 to 2450MHz
Reference	high-stability 10MHz

price on request

[datasheet](#)



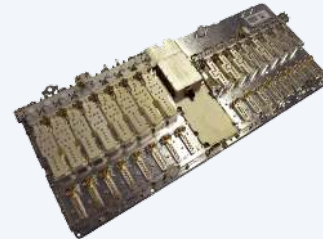
TELEDYNE DEFENCE & SPACE

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
Insertion Loss	Zero net (internal amplification)
Applications	EW receiver, ESM, space payload front-end, spectrum management

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	100W (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
ITAR Status	Non-ITAR capable
Design Origin	UK designed and manufactured

price on request

Contact Teledyne Defence & Space

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/teledyne-defence-space/>

<https://www.teledyne-ade.com/>

© 2026 Teledyne Defence & Space — product data. Document compiled by NewSpace Market from the live catalogue on 20 August 2026. May be shared freely.