

NEWSPACE MARKET · COMPANY PROFILE

RADIOSAT

PicoSaTs

Italy · picosats.eu

8

PRODUCTS

8

WITH DATASHEETS

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as of 20 August 2026

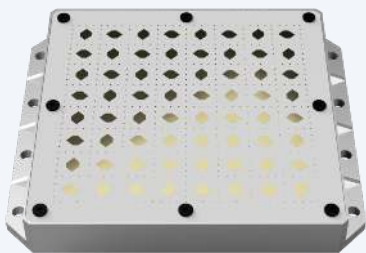


PicoSaTs

PicoSaTs is an Italian company based in the Friuli Venezia Giulia region, developing and manufacturing miniaturized radio frequency transponders and antenna systems for small satellites and CubeSats. The company's product line covers K-band, Ka-band, and Ku-band communications hardware engineered for the power, mass, and volume constraints of nanosatellite missions. The core product range includes integrated transponders combining up- and downlink functions in a single compact unit, and Ka-band horn antennas for high-gain ground communications. PicoSaTs targets commercial Earth observation operators, scientific CubeSat developers, and research institutions requiring flight-heritage RF components in standardized small satellite form factors. All products are designed for flight qualification in accordance with European space standards and manufactured in Italy under EU VAT registration IT 01253470320.

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.

Product catalogue

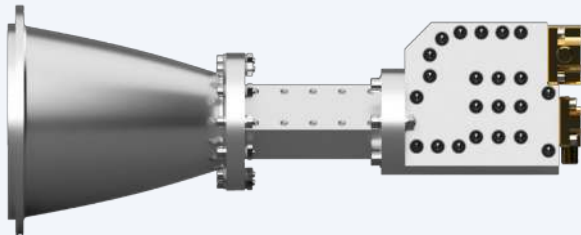


PICOSATS
BEAMSAT K-Band Patch Antenna

High-gain 8x8 K-band patch antenna of 135 g occupying under 1U of surface, with 22 dBi peak gain.

Frequency	17.3 - 21.2 GHz
Peak gain	22 dBi
Array	8 x 8 patch
Input matching	< -15 dB
Axial ratio	< 2 dB
Polarization	LHCP
Mass	135 g (with enclosure)

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

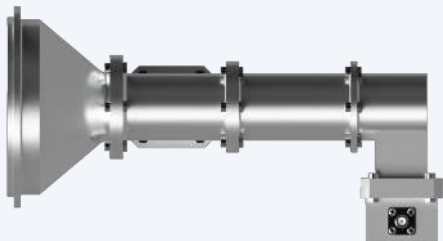


PICOSATS
BEAMSAT K/Ka-Band Horn Antenna

Dual-band dual-polarization high-gain horn antenna for LEO and GEO, under 2U and 569 g, 21.5 dBi in K-band and 24.5 dBi in Ka-band.

Frequency K-band	17.3 - 21.2 GHz
Frequency Ka-band	27.5 - 31 GHz
Peak gain	21.5 dBi (K-band), 24.5 dBi (Ka-band)
Input matching	< -15 dB (K-band), < -16 dB (Ka-band)
HPBW	17 deg at 19.5 GHz (K-band), 7.7 deg at 29 GHz (Ka-band)
Insulation	< -80 dB (K-band)
Axial ratio	< 2 dB in both bands

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



PICOSATS
BEAMSAT Ku-Band Horn Antenna

Dual-band linear-polarization Ku horn antenna for LEO and GEO, under 2U and 633 g, 16.2 dBi peak gain.

Frequency Ku-band 1	10.7 - 12.75 GHz
Frequency Ku-band 2	13 - 14.8 GHz
Peak gain	16.2 dBi in both bands
Input matching	< -15 dB in both bands
HPBW	22 deg in both bands
Insulation	< -50 dB (band 1)
Polarization	Linear

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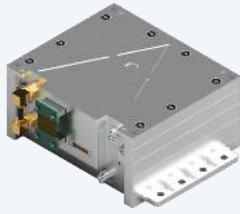


PICOSATS
BEAMSAT X-Band Patch Antenna

High-gain 4x4 X-band patch antenna of 100 g occupying under 1U of surface, with 17.1 dBi peak gain.

Frequency	8.025 - 8.4 GHz
Peak gain	17.1 dBi
Array	4 x 4 patch
Input matching	< -15 dB
Axial ratio	< 1.5 dB
Polarization	RHCP
Mass	100 g (with enclosure)

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



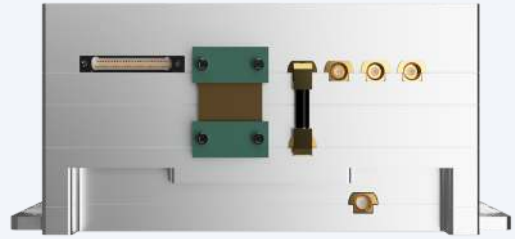
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RADIOSAT K/Ka-Band Transponder

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
Gain control	60 dB range; Fixed Gain Mode (FGM) and Automatic Gain Control (AGC)
Volume	0.5 U

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



PICOSATS

RADIOSAT 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
Mass	< 500 g
Power consumption	< 70 W

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



PICOSATS

RADIOSAT 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
Gain control	30 dB range; Fixed Gain Mode (FGM) and Automatic Gain Control (AGC)
Power consumption	< 40 W

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PICOSATS

RADIOSAT 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
Volume	< 0.5 U
Mass	< 500 g

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

Contact PicoSaTs

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.

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