

NEWSPACE MARKET · COMPANY PROFILE



Satlab A/S

Denmark · founded 2013 · satlab.com

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PRODUCTS

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WITH DATASHEETS

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as of 20 August 2026



Satlab A/S

Satlab A/S is a Danish company headquartered in Aalborg, founded by alumni of Aalborg University's pioneering CubeSat program, which has been building CubeSats since 2003. The company specializes in compact, radiation-tolerant software-defined-radio subsystems and traditional hardware transceivers for telemetry, tracking and command and payload data on nano- and micro-satellites, primarily on S-band and X-band. Satlab's flagship SRS-3 and SRS-4 S-band transceivers and Polaris SDR receiver family (AIS, ADS-B, LoRa) have flight heritage dating back to 2013, with over 100 units delivered across numerous missions and a technology readiness level of 9. The company also builds the SRX-8 high-speed X-band downlink transmitter, capable of up to 1.4 Gbit/s, and the VTRX VDES/VDE-SAT maritime transceiver, flying since 2023. Satlab previously offered a full S-band ground station product, now deprecated, and continues to offer R&D and consultancy services for custom radio and space-systems engineering.

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



SATLAB A/S

Polaris AIS

The Satlab Polaris AIS is a self-contained software-defined radio receiver for the maritime VHF band, designed for CubeSats and larger LEO satellites to receive standard and long-r

Frequency coverage	156.000 to 162.025 MHz
AIS channel frequencies	156.775, 156.825, 161.975, 162.025 MHz
Sensitivity	-121 dBm (80% reception rate)
Co-channel rejection	7 dB (80% reception rate)
Time tagging accuracy	3.6 µs @ -121 dBm, 1 µs @ -110 dBm
Frame store capacity	261120 frames
Input voltage	4.5 - 40 V

flight proven · TRL 9 price on request

[datasheet](#)



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 CubeSa

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
Sensitivity	-130 dBm (99% reception rate, SF9 with CR4)
Frame store capacity	130000 frames

flight proven · TRL 9 price on request

[datasheet](#)



SATLAB A/S

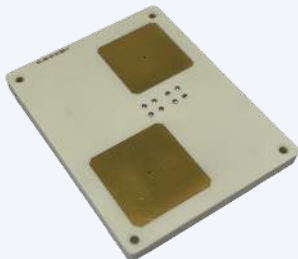
Satlab Polaris ADS-B

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
Frame store capacity	1048576 frames
Input voltage	4.5 - 40 V

flight proven · TRL 9 price on request

[datasheet](#)



SATLAB A/S

Satlab SAS-2 dual S-band patch antenna

The Satlab SAS-2 is a dual S-band patch antenna designed for space operation frequencies, occupying only 1U of surface area.

Frequency range RX	2025 to 2110 MHz
Gain RX	5.5 ± 0.3 dBi
HPBW RX	87° ± 4°
Frequency range TX	2200 to 2290 MHz
Gain TX	6.1 ± 0.2 dBi
HPBW TX	85° ± 4°
Dimensions	100.0 × 80.0 × 6.8 mm

price on request [datasheet](#)



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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
Receiver frequency	157.1875 MHz to 157.3375 MHz (lower leg) 161.7875 MHz to 161.9375 MHz (upper leg) 156 MHz
Receiver channels	2

flight proven · TRL 9 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
RX sensitivity	-107 dBm (<1 % PER, 128 kBd, BT=0.5)
Modulation	GMSK

flight proven · TRL 9 price on request

[datasheet](#)



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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
Receiver sensitivity	-122 dBm (<1% PER, 100 kBd BPSK)
Input voltage	5.1 to 28.8 V

flight proven · TRL 9 price on request

[datasheet](#)



SATLAB A/S

SRU-2

The Satlab SRU-2 is a passive S-band splitter and combiner module designed for use at ITU space operations S-band frequencies, featuring two independent Wilkinson divider/combiner

Frequency range on both paths	2000 to 2500 MHz
Insertion loss	Typ. 0.2 dB
Power handling	5 W
Operating temperature	-40°C to +85°C
Dimensions	87.2 × 93.0 × 15.7 mm
Mass	181 g

price on request [datasheet](#)

Contact Satlab A/S

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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