

NEWSPACE MARKET · COMPANY PROFILE



Berlin Space Technologies

Germany · founded 2010 · berlin-space-tech.com

14

PRODUCTS

10

WITH DATASHEETS

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as of 20 August 2026



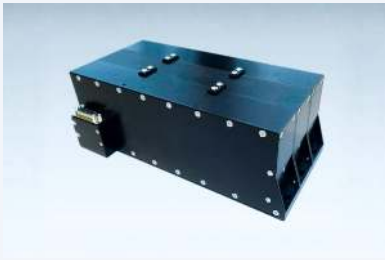
Berlin Space Technologies

Berlin Space Technologies (BST) is a company founded in 2010 by Tom Segert, Matthias Buhl, and Björn Danziger, alumni of TU Berlin.

The company specializes in the mass manufacture of small satellite systems and technologies. Initially, BST focused on manufacturing subsystems and has since expanded to build complete satellite systems. They offer an expansive space-proven product line and provide end-to-end solutions for space missions. The company emphasizes efficient and cost-effective approaches to building high-quality satellites. BST is headquartered in Berlin, Germany, as indicated by its name. The company has over a decade of experience and a track record of successful deployments.

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



BERLIN SPACE TECHNOLOGIES

BAT-110

The BST BAT-110 is a modular Li-Fe battery system for small satellites, offering high cycle life, safety features, and customizable voltage and capacity.

Voltage	23.1V (customizable)
Capacity	7.5Ah (customizable)
Operating Temperature	-20°C to 40°C
Storage Temperature	-30°C to 50°C
Protection	Overvoltage, Undervoltage
Mass	3000 g
Size	240x119x87 mm ³

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



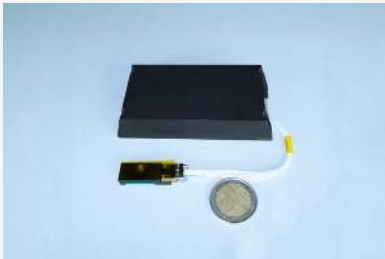
BERLIN SPACE TECHNOLOGIES

CDH-110

The CDH-110 is a Command and Data Handling (CDH) system for satellite buses, comprising an On-Board Computer (OBC-110) and an Attitude Control Computer (ACC-110) in a single housin

Data Interfaces	RS422, SPI, PWM
Processing Power	2x90 + 400MIPS
TMTC Operation	Yes
Real Time Linux	Yes (HP OBC)
Communications security	Authentication & Encryption
Mass	815 g
Size	176x94x69 mm ³

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



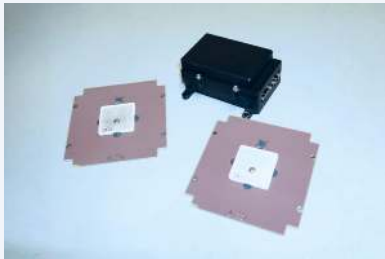
BERLIN SPACE TECHNOLOGIES

FSSA-110

The FSSA-110 is a Fine Sun Sensor Assembly from Berlin Space Technologies that hosts up to three analogue fine sun sensors, providing sun vector data to the satellite's OBC.

Accuracy	5°
Update Rate	10Hz
Coverage	Hemispherical
Sun Sensor Interface	5x Analogue per sensor
Data Interface	RS422
Mass (including 3 sensors)	110g
Size (without sensor)	95x44x20mm

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



BERLIN SPACE TECHNOLOGIES

GPS-110

The GPS-110 by Berlin Space Technologies is a miniature GPS receiver featuring two separate internal GPS receiver units and flight heritage since 2023.

Position Accuracy	< 10 m
Velocity Accuracy	0.1 m/s
Time to first fix	40s (cold start)
Power Consumption	3W
Data Interface	RS422
Mass	285g
Size	91x84x41mm

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



BERLIN SPACE TECHNOLOGIES

HRVI-2HD

The HRVI-2HD is a high-resolution optical payload system built by Berlin Space Technologies, offering 2m GSD and a 15km swath.

Resolution @500km	1.9m
Swath @500km	15km
Channels	1 PAN & 4MS
DPU	JPEG, 2TB storage, CCSDS, Encryption
In Orbit Focusing	Yes
Size	520x780x335mm ³
Mass	19kg

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



BERLIN SPACE TECHNOLOGIES

HRVI-2HD High-Resolution Imager

High-resolution optical imager achieving 1.9 m GSD with 15 km swath from LEO for Earth observation missions.

Ground Sampling Distance	1.9 m
Swath Width	15 km
Mass	19 kg

[price on request](#)



BERLIN SPACE TECHNOLOGIES

HRVI-6HD 2nd Gen

The HRVI-6HD 2nd Generation is a space-proven medium resolution earth observation system providing 4.6m GSD imagery with a 70km swath, and also features a hyperspectral option.

Resolution @500km	4.6m
Swath @500km	70km
Channels	1 PAN & 4MS
DPU	JPEG, 2TB storage, CCSDS, Encryption
In Orbit Focusing	Yes
Size	540x320x170mm ³
Mass	10.45kg

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



BERLIN SPACE TECHNOLOGIES

HRVI-6HD 2nd Gen High-Resolution Imager

Wide-swath high-resolution imager with 4.6 m GSD and 70 km swath for broad-area Earth observation.

Ground Sampling Distance	4.6 m
Swath Width	70 km
Mass	10.45 kg

[price on request](#)



BERLIN SPACE TECHNOLOGIES

LEOS-100

LEOS-100 is a highly modular satellite platform available in S, D, and DX versions, based on flight-proven avionics, supporting a wide range of missions and orbits.

Max. Payload Mass	250 kg
Payload Dimensions	2 m ³
Payload Peak Power	154 W
Orbit avg. Power Typical: 10:30 SSO, 100% Nadir	Up to 75 W 150 W solar panel peak
PL Data Rate	Up to 10 Gbps
PL Data Storage	1 TB per DPU
PL Data Downlink	X-band 1.2 Gbps (10 Gbit/s optical)

price on request



BERLIN SPACE TECHNOLOGIES

LEOS-50

The LEOS-50 is Berlin Space Technologies' heritage small satellite platform, flight proven with in-orbit operation since 2015. It is designed for demanding Earth observation

Max payload mass	30 kg
Payload envelope	55 x 55 x 40 cm
Peak payload power	160 W
Payload data rate	10 Gbps
Onboard storage	1 TB per data processing unit
Downlink	X-band, up to 100 Mbps
Communications security	CCSDS-compatible with authentication and encryption

price on request



BERLIN SPACE TECHNOLOGIES

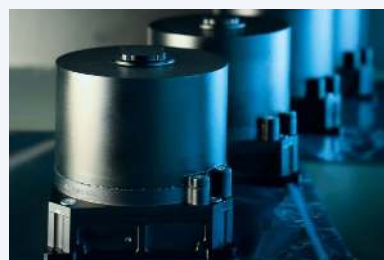
PCU-110

The PCU-110 by Berlin Space Technologies is a power control unit for small satellites, providing power regulation, switching, DC/DC conversion, and safety features.

Data Interfaces	RS422, I ² C
Solar Panel Interface	12x 23.1V (customizable)
Battery Interface	6x 23.1V (customizable)
Bus Voltage	23.1V (customizable)
Regulated Voltages	12V, 5V, 3.3V (customizable)
Mass	1080 g
Size	186x105x61 mm ³

price on request

[datasheet](#)



BERLIN SPACE TECHNOLOGIES

RWA-05

The RWA05 by Berlin Space Technologies is a reaction wheel for small satellites, offering high precision and an optional integrated fibre optical gyro.

Angular Momentum Storage	5 arcsec
Torque (net)	14mNm
Typical Speed	5000rpm
Speed Control Accuracy	+/- 2rpm
Data Interface	RS422
Mass (with / without Gyro)	1700g / 1500g
Size	105x107x110mm

price on request

[datasheet](#)



BERLIN SPACE TECHNOLOGIES

ST200

The ST200 is a miniaturized, autonomous star tracker designed for CubeSats and nano-satellites, providing a full attitude solution.

Accuracy	10 arcsec
Update Rate	5Hz
Limiting Magnitude	6.0
Sun Exclusion Angle	40°
Data Interface	UART (TTL), RS422 (optional)
Mass	106g
Size	50x50x83mm

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



BERLIN SPACE TECHNOLOGIES

ST400

The ST400 is a high-precision star tracker developed in collaboration with AAC Hyperion, providing a full and autonomous attitude solution for demanding small satellite missions.

Accuracy	5 arcsec
Update Rate	5Hz
Limiting Magnitude	6.0
Sun Exclusion Angle	40°
Data Interface	UART (TTL), RS422 (optional)
Mass	350g
Size	74x74x146mm

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

Contact Berlin Space Technologies

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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<https://www.berlin-space-tech.com>

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