



Emposat Co., Ltd.

China · founded 2016 · emposat.com

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PRODUCTS

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SERVICES

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as of 20 August 2026



Emposat Co., Ltd.

Emposat Co., Ltd. (formerly Aerospace Yuxing / SpaceOK) is China's pioneering commercial satellite telemetry, tracking, and command (TT&C) services company, founded in 2016 by a team of veterans from the China Academy of Space Technology (CASC). The company established China's first commercial satellite TT&C station and obtained the first radio station license for a third-party commercial satellite TT&C service. Emposat operates a distributed global ground station network spanning Southeast Asia, Central Asia, Europe (including a subsidiary SatHD Europe in France), Africa (Kenya, South Africa), South America (Argentina), and the Pacific Islands, enabling near-continuous coverage for LEO satellite operators. The network supports satellite management, orbit determination, TT&C, payload data downlink, and remote sensing calibration services. In addition to network services, Emposat develops its own ground station hardware including high-performance antennas, TT&C basebands, and high-speed data transmission systems. By mid-2023 the company had served more than 400 satellites and rockets cumulatively, cementing its leadership in China's commercial space ground segment sector. Emposat raised a pre-B round of approximately ¥200 million (USD ~30M) in 2023 led by Zhongguancun Science & Technology Town Fund, backed by Beijing municipal government, reflecting strategic significance of commercial satellite infrastructure in China's national space development strategy.

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SERVICES

Services

Spacecraft Telemetry, Tracking and Command (TT&C) Service for Launch and Re-entry

Provides comprehensive TT&C services for spacecraft during launch, in-orbit, and re-entry phases, utilizing a global network of ground stations and mobile assets.

Product catalogue



EMPOSAT CO., LTD.

Comprehensive TT&C Baseband

The EMPOSAT Comprehensive TT&C Baseband is a software-defined radio solution for space applications, capable of performing various TT&C functions and supporting multi-mode

Technology	Software-defined radio (SDR)
Modes	Standard TT&C, Integrated TT&C+data, Low-speed data, FM remote
Protocol Support	TCP, UDP
Control	Local and remote (sub-control)
Remote Upgrade	Yes
Simultaneous Systems	Multiple TT&C systems in parallel

price on request



EMPOSAT CO., LTD.

EMPOSAT 1.8m Portable Ground Station

The EMPOSAT 1.8m Portable Ground Station is a modular and miniaturized system designed for satellite/rocket TT&C, data reception, and high-speed data injection, supporting mult

Frequency Bands (standard)	S/X
Frequency Bands (optional)	C/Ka
X-band Data Rate	100
Antenna Aperture	1.8
Deployment Time	<30
Mounting	Vehicle-mounted or manual portable
GEO TT&C Support	Yes (S-band)

price on request



EMPOSAT CO., LTD.

EMPOSAT High-speed data transmission baseband

The EMPOSAT High-speed data transmission baseband supports demodulation and decoding of multiple modulation systems and high-gain channels at high bit rates, facilitating satellite

Encoding/Decoding	Convolutional, RS, LDPC
Scrambling	Supported
Frequency Converter	Plug-in, multi-band optional
RF Docking	Standalone capable
IF Noise Source	Broadband output
Analysis	Frequency spectrum and SNR display
Architecture	Universal modular, macro-parameter configurable

price on request



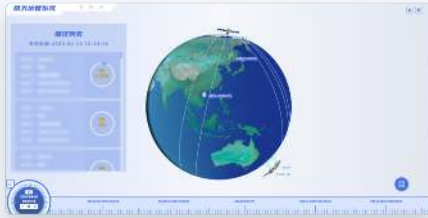
EMPOSAT CO., LTD.

Integrated TT&C and Data Transmission Ground System

A family of integrated telemetry, tracking, command (TT&C) and data-transmission ground stations — from mobile/portable units to 4.5m, 8m and 12m fixed antenna systems — for sa

12m station – Uplink frequency	7145MHz–7250MHz, step 1kHz
12m station – Telemetry frequency	8.025GHz–8.4GHz, step 1kHz
12m station – Data transmission frequency	7.75GHz–9.0GHz, step 1kHz
12m station – Antenna diameter	12m
12m station – Main reflector surface accuracy (RMS)	≤0.5mm
12m station – Sub-reflector surface accuracy (RMS)	≤0.3mm
12m station – G/T (X-band)	≥35+20lg(Fi/F0) dB/K (F0=7750MHz)

price on request



EMPOSAT CO., LTD.

Satellite Mission Control Software Suite

Cloud-native TT&C mission software suite covering orbit determination, attitude control, task planning, telemetry/telecommand and 3D visualization.

Architecture	Microservices, B/S architecture, Vue front end, Java/J2EE back end
Deployment	Cloud-native, containerized (Kubernetes), elastic scaling, high availability, primary/back
Orbit propagation models	SGP4, J2, HP0P; TLE conversion; eclipse and pointing calculations; collision-risk simulati
Task planning	Genetic-algorithm auto-scheduling plus manual scheduling; Gantt-chart display; ground-trac
Telemetry processing	Time-series database storage; hot-reload parameter configuration; multi-satellite dashboar
Telecommand management	Direct/indirect/parameterized command configuration; batch import; automatic or manual upl
Data relay	Netty-based TCP/UDP protocol conversion; packet handling; real-time traffic monitoring and

price on request

Contact Emposat Co., Ltd.

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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