

NEWSPACE MARKET · COMPANY PROFILE



Tsd-space

Italy · founded 1977 · tsd-space.it

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PRODUCTS

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A large, faint, stylized graphic of an eye or a camera lens, composed of concentric arcs and a central circle, positioned on the right side of the page.

Tsd-space

Techno System Developments S.r.l. (TSD-Space) is an Italian space technology company founded in 1977 in Pozzuoli, near Naples, that started out in applied research in aerodynamics, fluidynamics and microgravity before specializing, from the early 1990s, in the design, development and manufacturing of on-board and ground electronic equipment for aerospace applications. The company's product portfolio spans four main areas. Imaging Systems covers compact space cameras and camera electronics, including the H2CS family of CubeSat cameras, the SMC deep-space monitoring camera flown on ESA's HERA mission, MOSS vision-based navigation systems, and video management/compression units flown on PRISMA, the ISS EML facility and multiple sounding rocket campaigns. Spacecraft Avionics includes the ARGO family of multi-camera star tracker systems, a fully redundant LEON3-based on-board computer, digital heater controllers, and CCSDS TM/TC and SpaceWire interface boards. Payload Electronics includes data processing and image compression units for missions such as PRISMA's hyperspectral instrument (SDAC), Solar Orbiter's SWA instrument, the ISS EML high-speed camera, and the Luna-25/Luna-Glob PILOT-D lander payload. Ground Segment products include EGSE/SCOE test equipment, command and telemetry ground stations, and interface bridge units supporting SpaceWire, CameraLink and Ethernet. TSD-Space has supported missions for ESA, ASI, Airbus Defence and Space, SSC, Thales Alenia Space and other primes, with hardware flown on PRISMA, the ISS Columbus module, Solar Orbiter, HERA, FOTON, and multiple sounding rocket programs, and is currently developing payload electronics for the Eagle-1 quantum key distribution satellite and the IRIDE Earth observation constellation.

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



TSD - SPACE

ARGO-2 High Performance Star Tracker System (HSTS-2)

ARGO2.0 is a compact, scalable multi-camera Star Tracker System designed for small platforms, including CubeSats, offering high accuracy and reliability for attitude determination.

Number of cameras	Up to three 4Mpixel resolution cameras
DPU Dimensions	95mm x 94mm x 22mm
DPU Mass	~250g
DPU Power Consumption	About 3W @5VDC
DPU Interfaces	RS422 and SpaceWire I/F
DPU Radiation Tolerance (TID)	>20Krad

price on request



TSD - SPACE

EGSE and SCOE Ground Test Equipment

Family of Electrical Ground Support Equipment and Special Check-Out Equipment supporting numerous ESA and ASI missions.

Programs supported	PRISMA, SENTINEL-3, ISS EML, SAR-LUPE, ARGO, FOTON, VIRTIS/Rosetta/Venus Express, USV, TEX
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price on request



TSD - SPACE

EGSE and SCOE, Command & Telemetry Ground Units, TSD I/F Bridge

TSD offers a suite of ground segment products including Electrical Ground Support Equipment (EGSE) and Special Check-Out Equipment (SCOE), Command & Telemetry Ground Units, and

EGSE and SCOE Flight Heritage	Payload of PRISMA Hyper-Spectral Earth Observation Satellite; SCOE for SENTINEL-3 Program
Command & Telemetry Ground Units Architecture	PC-based Architecture with Windows OS
Command & Telemetry Ground Units Hardware	FPGA-based PCI Board for H/W coding/decoding algorithms execution
Command & Telemetry Ground Units HMI	User-friendly and Intuitive HMI
Command & Telemetry Ground Units Configuration	Wide Range of configuration parameters and status
Command & Telemetry Ground Units Performance	High Integration with enhanced performances, upgradeability and flexibility
Command & Telemetry Ground Units I/F to Modulator	RS422 Data + Clock

price on request



TSD - SPACE

Ground Segment Products (EGSE, SCOE, Command & Telemetry Ground Units, TSD I/F Bridge)

TSD offers a suite of ground segment products including Electrical Ground Support Equipment (EGSE), Special Check-Out Equipment (SCOE), Command & Telemetry Ground Units, and th

EGSE for the Payload of	PRISMA Hyper-Spectral Earth Observation Satellite
SCOE for	SENTINEL-3 Program (OLCI Camera SCOE, OLCI Instrument SCOE and MIL-STD-1553B SCOE)
EGSE for the	ISS EML Digital Video System
SCOE for ACS I/F and HK boards of	SAR-LUPE Satellite Management Unit
SCOE for ACS I/F and HK boards of	ARGO Satellite Management Unit
Ground Support & Test Equipment for the Payload Data Handling System of	FOTON 12, M1, M2 and M3 satellites
EGSE for	VIRTIS Instrument (Rosetta Spacecraft and Venus Express)

price on request



TSD - SPACE
Payload Electronics

TSD offers a range of payload electronics, including image data handling and storage units, high-data-rate image compression modules, data processing units, and control and data ac

PILOT-D CDIU Mission	Luna-25 (Luna-Glob) mission
PILOT-D CDIU Functionality	Image Data Handling and Storage Unit, interface unit, communication I/Fs, video data stora
Multi/Hyperspectral Module Mission	PRISMA Hyperspectral Mission
Multi/Hyperspectral Module Component	PRISMA Payload Main Electronics Unit (SDAC)
Multi/Hyperspectral Module Configuration	Upper board (nominal), lower board (redundant)
Multi/Hyperspectral Module Input Imagers	SWIR, VNIR, PAN
Multi/Hyperspectral Module Encoding	CCSDS and Reed Solomon

price on request



TSD - SPACE
SMC – Spacecraft Monitoring Camera

The HERA Spacecraft Monitoring Camera (SMC) is a compact, high-performance CMOS camera designed for deep space applications, featuring a 4MP image sensor, real-time image processin

Size	~1U
Mass (including optical system)	900g
Image Sensor	4MP CMOS
Selectable ROI	1600x1600px and 1600x1200px
Frame Rate	Up to 10 fps
Spectral Range	400 to 750 nm (visible)
Versions	B/W and RGB

price on request



TSD - SPACE
SMC — Spacecraft Monitoring Camera

Very compact deep-space CMOS monitoring camera developed for ESA's HERA mission.

Mass	~900 g including optical system
Volume	~1U
Image sensor	4 MP, selectable ROI 1600x1600px or 1600x1200px
Frame rate	up to 10 fps
Spectral range	400–750 nm (visible), B/W and RGB versions
Pixel rate	up to 40 Mpx/s
Mass memory	2x 32 Gbit NAND Flash (nominal + redundant)

price on request

Contact Tsd-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.

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