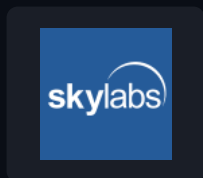


NEWSPACE MARKET · COMPANY PROFILE



SkyLabs d.o.o.

Slovenia · founded 2013 · skylabs.si

21

PRODUCTS

newspacemarket.com/companies/skylabs-d-o-o/

as of 20 August 2026

A large, faint, stylized graphic of an eye or a camera lens, composed of concentric arcs and a central circle, rendered in a dark blue color.

SkyLabs d.o.o.

SkyLabs is a space-technology oriented company providing miniaturized on-board data handling solutions and an innovative approach to space engineering. SkyLabs is primarily focused on high-tech tailor-made solution development, including fault tolerant hardware and software development, digital signal processing, radiation hardened by design IP core development, fast prototyping, and space/ground segment communication. SkyLabs is a vibrant team of electrical, mechanical and computing engineers and scientists providing services and technology solutions for the most demanding terrestrial and aerospace applications. By following the latest technology trends it provides innovative solutions with a proactive and creative design approach. Its NANOskey avionics product family covers on-board computers (NANOobc-2, NANOohpm-obc, NANOohpc-obc with AI/DPU extensions), an ADCS/GNC platform (NANOadcs, co-developed with Indra Deimos), UHF/VHF, S-band and X-band communication subsystems (NANOcomm-2, NANOLink(-S), NANOCast), an electrical power system with integrated battery management (NANOeps, NANOeps-AMPPT), remote terminal units (NANOif-2, picoRTU), the PicoSkyFT fault-tolerant IP core, and the companion skyEGSE ground support equipment and NANOskey CMM SDK software suite. All designs follow a fault-tolerant, radiation-tolerant-by-design philosophy for nano- and micro-satellite missions.

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



SKYLABS D.0.0.

NANOadcs

High performance GNC platform for ADCS with built-in fault-tolerant OBC, GNSS, magnetometer and gyroscope.

Standard	ISO 19683, IPC Class 3+
TRL	6
MAIT	In-house
Built-in	NANOhpm interface
Interface	Redundant CAN for TM/TC
Integrated on-board sensors	GNSS receiver, magnetometer, gyro
Configurable LCL protected power channels	3.3V, 5V, 12V, or 18V

TRL 6 price on request



SKYLABS D.0.0.

NANOcast

100 Mbps X-band satellite transmission subsystem with integrated amplifier and built-in encryption.

Standard	ISO 19683, IPC Class 3+
TRL	5
MAIT	In-house
Output power	Up to 37 dBm (5 W)
Security (optional)	AES-GCM-256; CCSDS 355.0-B-2 SDLP
Data rates	Up to 100 Mbps @ 50 MHz (OQPSK)
Interfaces	Redundant CAN for TM/TC, dual LVDS, dual ETH

TRL 5 price on request



SKYLABS D.0.0.

NANOcomm-2

UHF/VHF full-duplex satellite communication subsystem with highly efficient amplifier.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Output power	Adj. up to 31 dBm (1.3 W)
Input sensitivity	-111 dBm @ 25 kbps GFSK
Data rates	Up to 25 kbps, full duplex
Frequency band	Tx: 400 - 470 MHz, Rx: 130 - 200 MHz

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOeps

Highly integrated electrical power system with battery management and power control/distribution module.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Battery pack capacity	Up to 172 Wh (multiple units in parallel configuration)
Battery pack life time	> 30000 re-charge cycles @ 20% DoD (80% EOL capacity)
Charge rate	Continuous up to 18 A
Discharge rate	Continuous up to 18 A, peak up to 54 A

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOeps-AMPPT

Safest and most accurate solar array energy conversion subsystem using analog maximum power point tracking.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
AMPPT channels	8 channels with dedicated AMPPT each
AMPPT efficiency	> 80% (at 25°C)
Number of NTC inputs	10
Solar array (input) parameters	Input voltage range 12.1V to 23.3V; up to 678 mA input current; input power up to 9W per c

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOhpc-AI

High-performance, power-efficient AI accelerator extension for NANOhpc-obc using dual Hailo-8 accelerators.

Standard	ISO 19683, IPC Class 3+
TRL	5
MAIT	In-house
AI extension AI Technology	Dual Hailo-8 accelerator
Performance	Up to 52 TOPS
Typical power	Combined 5W consumption
Supported Frameworks	TensorFlow, TensorFlow Lite, Keras, PyTorch & ONNX

TRL 5 price on request



SKYLABS D.0.0.

NANOhpc-DPU

High-performance reconfigurable data processing unit extension for NANOhpc-obc, built around AMD Zynq UltraScale+ MPSoC.

Standard	ISO 19683, IPC Class 3+
TRL	5
MAIT	In-house
DPU extension AI Technology	AMD Zynq UltraScale+ MPSoC ZU7EV
FPGA Fabric	504K system Logic Cells
Codec support	H.264 / H.265
Dedicated FPGA logic memory	32 Gb DDR4

TRL 5 price on request



SKYLABS D.0.0.

NANOhpc-obc

64-bit high-performance multicore RISC-V on-board computer for AI@Edge and demanding LEO applications.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Main CPU cluster	4x RISC-V 64-bit processors @ max 600 MHz
Supervisor	RISC-V monitoring core @ max 600 MHz
Main memory	4 GB DDR4
Memory Management	MMU with Physical memory protection

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOOhpm-obc

High-performance MCU-based fault-tolerant on-board computer.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Processor	NOEL-V 32-bit core (RV32IMAFD) with FPU
Memory	256 MB DDR3 (EDAC protected)
Mass storage	2 GB NAND Flash (EDAC protected)
TM storage	1 MB MRAM (EDAC protected)

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOif-2

Intelligent remote terminal unit with unified TM/TC interface for satellite sensors, instruments and payloads.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
User interfaces	2x CAN (with CSP bridge), 5x RS422, 24x ADC, 28x GPIO (8 with remapping to SPI, I2C, UART)
Interfaces	Redundant CAN for TM/TC
TM storage	Up to 24k log entries

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOLink(-S)-base

S-band full-duplex communication subsystem with efficient integrated amplifier and optional AES-256 encryption.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Output power	Adj. up to 30 dBm (1 W)
Security (optional)	AES-GCM-256; CCSDS 355.0-B-2 SDLP; CCSDS 355.1-B-1 SDLP-EP
Input sensitivity	-95 dBm @ 4 Mbps OQPSK
Data rates	Up to 4 Mbps, full duplex

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOLink(-S)-boost

S-band communication subsystem with an additional highly efficient amplifier and optional AES-256 encryption.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Output power	Adj. up to 37 dBm (5 W)
Security (optional)	AES-GCM-256; CCSDS 355.0-B-2 SDLP; CCSDS 355.1-B-1 SDLP-EP
Input sensitivity	-95 dBm @ 4 Mbps OQPSK
Data rate	Up to 4 Mbps, full duplex

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOLink(-S)-boost-dp

S-band full-duplex communication subsystem with a sophisticated dual-port signal splitter/combiner and optional AES-256 encryption.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Output power	Adj. up to 31.5 dBm (1.4 W) per antenna port
Security (optional)	AES-GCM-256; CCSDS 355.0-B-2 SDLP; CCSDS 355.1-B-1 SDLP-EP
Input sensitivity	-86 dBm @ 4 Mbps OQPSK
Data rate	Up to 4 Mbps, full duplex

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOobc-2

Fault-tolerant second-generation on-board computer for mission-critical satellite operation.

Standard	ISO 19683, IPC Class 3+
TRL	9
MAIT	In-house
Processor	PicoSkyFT 8/16-bit core with single precision FPU
Code Memory	4 MB MRAM (EDAC protected)
Data Memory	2 MB (EDAC protected)
Mass storage	2 GB NAND Flash (EDAC protected)

flight proven · TRL 9 price on request



SKYLABS D.0.0.

NANOskey CMM SDK

Software development kit for control, monitoring and management (CMM) of NANOskey platform subsystems.

Components	Application Library module (Qt/C++, Windows/Linux) + FW module (C-based, RTOS)
Compatible equipment	NANOobc-2, NANOhpm-obc, NANOLink-2, NANOcomm-2, NANOif, NANOeps, NANOamppt, picoRTU system
FW module functions	Bootloader, FDIR, CAN- TS/LVDS-TS stacks, housekeeping TM, memory & OBT management, softwar

price on request



SKYLABS D.0.0.

picoRTU system

Highly modular remote terminal unit system for LEO small and micro satellite missions.

Standard	ISO 19683, IPC Class 3+
TRL	7
MAIT	In-house
Bus interface	Redundant CAN (ISO 11898-2), CANopen per ECSS-E-ST-50-15C
Discrete user interfaces	Compliant with ECSS-E-ST-50- 14C specifications
Firmware	Universal, qualified, real- time OS based, per SAV0IR-GS- 003
Ground software	skyEGSE-GUI for configuration, integration test and real-time monitoring

TRL 7 price on request



SKYLABS D.0.0.0.

skyEGSE-comm (S-band)

Ground station equipment for CCSDS-compliant, full-duplex communication over S-band RF link with NANOLink-2 equipment.

Type	CCSDS-compliant SDR ground station equipment
Frequency range	S-band
Error correction	Convolutional and Reed-Solomon codes
Compatible with	NANOLink-2, skyEGSE-GUI, NANOskey CMM SDK

price on request



SKYLABS D.0.0.0.

skyEGSE-comm (UHF/VHF)

Ground station equipment for CCSDS-compliant, full-duplex communication over UHF/VHF RF link with NANOcomm-2 equipment.

Type	CCSDS-compliant SDR ground station equipment
Frequency range	UHF/VHF
Error correction	Convolutional and Reed-Solomon codes
Compatible with	NANOcomm-2, skyEGSE-GUI, NANOskey CMM SDK

price on request



SKYLABS D.0.0.0.

skyEGSE-GUI

Intuitive desktop application for out-of-the-box operation, monitoring and control of SkyLabs equipment.

Type	Windows/Linux desktop application
Connectivity	Via skyEGSE-LINK2 dongle or skyEGSE-comm server
Built on	NANOskey CMM SDK Application Library
Functions	Status overview, real-time TM charting & export, telecommand interface, log download, para

price on request



SKYLABS D.0.0.0.

skyEGSE-LINK2

USB interface dongle for high-speed, low-latency communication over CAN/LVDS/RS422 interfaces.

Standard	IPC Class 3+
MAIT	In-house
Interfaces	Two CAN buses, two high-speed LVDS (TIA/EIA-644), two RS422 (TIA/EIA-422)
Connectivity	USB Plug-n-Play

price on request

SKYLABS D.0.0.

SpaceWire IP Core (PicoSkyFT)

Rad-hard-by-design, fault tolerant 8/16-bit embedded processor IP core (PicoSkyFT) for SoC integration.

Product code	SKY-9001
Architecture	Harvard enhanced RISC pipelined architecture, ~1 MIPS/MHz
Instruction set	PicoSky ISA with 140 instructions, high code density
Operating modes	Supervisor, User, Debug, Sleep, Reset
Radiation hardening	Radiation hardened by design; all memories EDAC protected (Multiple SEC-DED)
Register protection	Parity protected supervisor and user register files with diagnostic bypass
Traps controller	FDIR policy fully user- definable per fault cause

price on request

Contact SkyLabs d.o.o.

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.

<https://newspacemarket.com/companies/skylabs-d-o-o/>

<https://www.skylabs.si/>