



Space Union

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as of 20 August 2026



Space Union

Space Union (UAB SPACEUNION) is a Vilnius-based innovation and R&D company focused on photoelectronic technology and laser directed energy systems. The company operates at the intersection of defense technology and space applications, developing solutions for counter-UAV protection, space debris removal, and next-generation satellite laser communication links. Space Union's C-UAV portfolio includes short-range laser defense systems capable of detecting and neutralizing drones through directed energy, border and customs security systems with radar detection range up to 5 km, drone-mounted laser blinding systems, and infrastructure protection solutions for critical facilities such as power plants and water treatment facilities. In the space domain, Space Union is developing active space debris removal technology using laser directed energy to decelerate spent satellites for deorbiting. The company is also registered with the ITU as a low orbit operator, with satellite gateway infrastructure designed to support laser inter-satellite links for 5G network extension, IoT connectivity, and quantum key distribution. Space Union collaborates with leading European organizations including ESA, Airbus, TESAT, FTMC, Kaunas University of Technology, and Antwerp Space, and has participated in the NATO DIANA accelerator program.

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.

SERVICES

Services

Development of Hardware-in-the-Loop Testbed

Development of a Hardware-in-the-Loop Testbed for Disruption Tolerant Low Earth Orbit Data Relay System (LDRS).

Study of the effects of the laser guided energy protection system on materials

Conducting studies on the effects of laser-guided energy protection systems on various materials.

Product catalogue



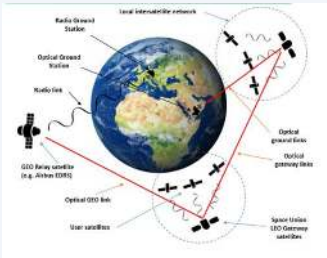
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Laser Directed-Energy Space Debris Deceleration System

Active space debris removal concept using laser directed energy to decelerate spent satellites for deorbiting.

Type	Laser directed-energy deorbit assistance
Application	Active space debris removal, satellite deceleration
Heritage	LDRS LEO data-relay HIL testbed; laser-material effects studies with FTMC

price on request



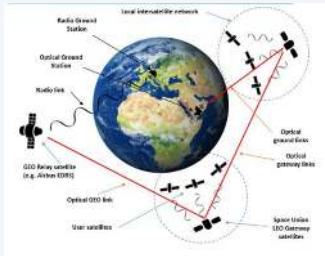
SPACE UNION

Satellite Optical Laser Link (Inter-Satellite FSO)

Space Union's Satellite Optical Laser Link is an extra-high-throughput free-space optical (FSO) laser communication system designed for inter-satellite and satellite-to-gatew

Link Type	Free Space Optical (FSO) laser inter-satellite link
Operating Environment	Low Earth Orbit (LEO)
Applications	5G extension, IoT/GSM integration, quantum key distribution relay
Operator Registration	UAB SPACEUNION registered as ITU operating agency
Network Integration	Compatible with existing GSM infrastructure for IoT services

price on request



SPACE UNION

Space-Based Quantum Key Distribution (QKD) System

Space Union's Space-Based Quantum Key Distribution (QKD) System provides secure data storage and transmission services leveraging quantum key cryptography delivered via satel

Technology	Quantum key cryptography via satellite laser links
Distribution Model	Trusted node scheme for global LEO coverage
Security Standard	Quantum Key Distribution (QKD) – information- theoretically secure
Customers	Fixed/mobile network operators, government, defense, IoT providers
Additional Service	Frequency coordination with satellite network administrators
Operating Orbit	Low Earth Orbit (LEO)

price on request

Contact Space Union

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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