

NEWSPACE MARKET · COMPANY PROFILE



Solstar Space

United States · founded 2017 · solstarspace.com

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as of 25 August 2026

Solstar Space

Solstar Space Co. was founded in Santa Fe, New Mexico in March 2017 by Brian Barnett to bring commercial wireless internet connectivity to space. The company develops communications hardware and managed network services purpose-built for the rigours of the space environment — from low Earth orbit and suborbital vehicles to lunar orbit, lunar surface habitats, and beyond Earth-Moon space. Products integrate into spacecraft, space stations, rovers, and spacesuits, enabling crew communications, IoT telemetry, payload command-and-control, and broadband data downlink. Solstar achieved a landmark milestone in 2018, demonstrating the first commercial WiFi hotspot aboard a spacecraft during a Blue Origin New Shepard flight — including the first commercial tweet sent from above the Kármán line. This was followed by the first demonstrated internet connection between a commercial satellite constellation and a spacecraft at rocket velocity aboard an UP Aerospace vehicle. The Schmitt Space Communicator was subsequently accessioned into the Smithsonian National Air and Space Museum. The company's current product lineup covers narrowband IoT (Deke Space Communicator), broadband data and video (Slayton Space Communicator), and radiation-hardened WiFi access points for lunar and station environments (Solstar LWIFI-X). In 2025 Solstar received a NASA SBIR contract for Lunar Wi-Fi system development, and in 2026 its Deke communicator will fly aboard Momentus' Vigoride-7 OTV on SpaceX Transporter-16.

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SERVICES

Services

Network and communications services for space missions and operations

Solstar provides comprehensive network and communication services, including 24/7 links, flexible plans, and support for voice, data, and video across various space assets.

Solstar Persistent Space Communications Services

Solstar offers leading narrowband and broadband data and voice services for space missions and operations, ensuring persistent communication.

Product catalogue



SOLSTAR SPACE

Deke Space Communicator

Narrowband bi-directional IoT relay for CubeSats, SmallSats, and launch vehicles — size of a deck of cards, connecting any internet-enabled Earth device to space assets.

Communication type	Narrowband, bi-directional
Form factor	~deck of cards
Network	Commercial satellite constellation
Security	End-to-end encryption + authentication
Swap	Low (optimised for CubeSats)
Integration	Pre-launch into spacecraft
Award	MSUA New Space Mobile Innovation of the Year

price on request



SOLSTAR SPACE

Slayton Space Communicator

Broadband bi-directional space communications device — 24/7 high-speed internet, HD video, and large data downlink for ISS-class platforms and orbital payloads.

Communication type	Broadband, bi-directional
Connectivity	24/7 high-speed internet
Capabilities	Video streaming, video calls, large data downlink
Network	Commercial satellite constellation
Rating	Human spaceflight rated
Applications	Space stations, orbital platforms, science payloads

price on request



SOLSTAR SPACE

Solstar LWIFI-X — Lunar WiFi Access Point

Radiation-hardened, space-rated WiFi access point for lunar rovers, surface habitats, space stations, and crewed vehicles — developed under NASA SBIR contract.

Type	Radiation-hardened WiFi access point
Rating	Space-rated and human-rated
Protocol	WiFi (802.11)
Swap	Minimal volume, weight, power
Compatible standards	LunaNet, RPOD, ISAM
Environments	Lunar rovers, habitats, space stations, crew capsules
Development contract	NASA SBIR (2025)

price on request

Contact Solstar 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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