

Fleet Space Technologies

Company Overview

Fleet Space Technologies, a leading Australian space company with a mission to connect Earth, Moon, and Mars, is revolutionising the mineral exploration, defence, and space exploration sectors through its groundbreaking products and connectivity solutions. Headquartered at a state-of-the-art facility in Adelaide, South Australia, Fleet has rapidly grown to over 100 employees and boasts a global presence, including a team in the US and offices in Canada, Luxembourg, and Chile.

After their AUD\$50M Series C investment round in 2023, Fleet is an emerging Australian force in the global 'New Space' industry with a unique opportunity to develop and embrace cutting-edge technologies and methodologies for producing satellite technology domestically. The company's key capabilities are low-power, high performance edge computing in small spacecraft and terrestrial devices as well as additive manufacturing. Fleet Space is one of the global leaders in microsatellite digital beamforming for low power wide area networks, which it uses to rapidly discover mineral deposits, critical for national security and supply chain resilience, with its revolutionary ExoSphere technology. This technology is also being deployed on the Moon through a contract with the Australian Space Agency.

Fleet is currently working with the Australian Defence Space Command to support the design, integration and deployment of high quality, low latency, resilient and secure Low Earth Orbit telecommunication satellites to provide reliable, tactical voice and data beyond line of sight.

Products

- Nano and Micro Satellite technology providing advanced communication, connectivity and satellite communications (SATCOM) technologies for Defence applications
- Advanced, satellite-connected sensing solutions with edge compute and advanced signal processing
- ExoSphere, real-time ambient noise tomography for securing critical mineral with accelerated exploration technology
- Fleet is Defence ready and possess capabilities which will meet Defence requirements and advanced secure defence communications
- Fleet is building a mass manufacturing facility in Adelaide designed for both military and civilian use, with segregated high security areas to allow sensitive Defence manufacturing and testing
- Centralised payload manufacturing for rapid prototyping
- Additive manufacturing (aluminium & titanium)

Availability and Support

- 12U Centauri satellite communications payload (technology readiness level (TRL9))
- ExoSphere, global support and deployment - availability heavily impacted by demand
- Additive manufacturing in Australia for global customers
- Offices in Australia and United States



Discriminators

- Low power terminal communications
- Fully 3D-Printed Alpha satellite design
- Low mass, high-performance satellites
- High-security & high-throughput
- Low-cost, distributed system
- Digital beamforming for improved performance and jamming protection
- 2.4 kbps to 500 kbps
- S-Band, L-Band, Ultra high frequency (UHF), X-Band

Key Customers

- Australian Defence Space Command
- Australian Space Agency
- CoreLithium
- Rio Tinto
- Gold Fields
- Barrick Gold Corporation

Key Partnerships (Suppliers)

- SpaceX
- Rocket Lab
- University of Adelaide
- Amazon Web Services
- REDARC Technologies

Key Partnerships (Consulting)

- SmartSat CRC
- Defence Science and Technology Group (DSTG) (Australia)
- Pyne & Partners
- Ernst and Young (EY)
- PwC

Quality Accreditations and Awards

- ISO/IEC 27001:2013 Information Security Management
- ISO9001:2015 Quality Management System
- 2023 Space Awards, Business of the Year – SME
- 2023 AustMine Awards, Outstanding METS Innovation Award
- 2022 ExoSphere: Good Design Award, Best in Class (Product Design, Commercial and Industrial)
- 2022 3D Printing Industry Awards: Aerospace, Auto or Energy

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