SES
SPACE & DEFENSE

DATA SHEET

FLEXIBLE - 5000 steerable beams per satellite and an open architecture system supporting dedicated U.S. Government terminals and gateways.

SECURE - Fully digitized payload with secure beam-forming and sovereign network features that support protected tactical waveforms and location obfuscation.

FAST - Low-latency with large field of view and guaranteed committed information rates (CIR) from 40Mbps to 10Gbps per terminal.

RESILIENT – Redundant and disaggregated ground and space architecture enhanced with operational autonomy through the Adaptive Resource Control (ARC) system..

O3b mPOWER — FLEXIBLE, SECURE, & FIBER-FAST SATCOM

New applications and increasing data demands are driving the need for flexible, resilient, and scalable low-latency connectivity to the edge of your global network.

A New Era of Resilience and Speed

O3b mPOWER is an integrated communications system with fully synchronized space and ground resources. Power levels, throughput, and frequency allocation are dynamically controlled to optimize service delivery, empowering users to drive efficiency in ways previously unheard of in the satellite industry.

Each satellite can cast countless resilient electronically steerable beams, directed, and switched in near real-time to deploy uncontested services at throughputs ranging from 50Mbps to multiple gigabits per second per service. Orbiting at an 8,000km MEO altitude enables the constellation to guarantee low-latency data transfer with coverage between ±50° latitude serving 96% of the world's population.

Revolutionizing Global Operations

As government entities transition their operations to adopt the latest technological developments from edge computing to cloud-based applications they need to augment their existing networks with additional terminals, bandwidth, and add redundant communication paths to achieve the necessary flexibility, resilience, and redundancy.

With the industry's first multi-band and multi-orbit satellite network, we have the expertise to address the entire range of government communication requirements. Building upon our market-leading O3b MEO constellation, the industry's first proven non-geostationary satellite orbit (NGSO) system, O3b mPOWER provides multi-gigabit links virtually anywhere on Earth.

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O3b mPOWER – FLEXIBLE, SECURE, & FIBER-FAST SATCOM

When commanders control troop movements in real-time, decisions need to be made instantaneously. Secure edge computing over the tactical theatre substantially increases the chance of mission success and lives saved. O3b mPOWER allows decision-makers to extend edge computing to the tactical edge without buffering.

From anti-jam capabilities, changeable frequencies, and supporting dedicated sovereign gateways, the O3b mPOWER system is engineered to meet government needs for secure, future-proof communication infrastructure.

O3b mPOWER Managed Services

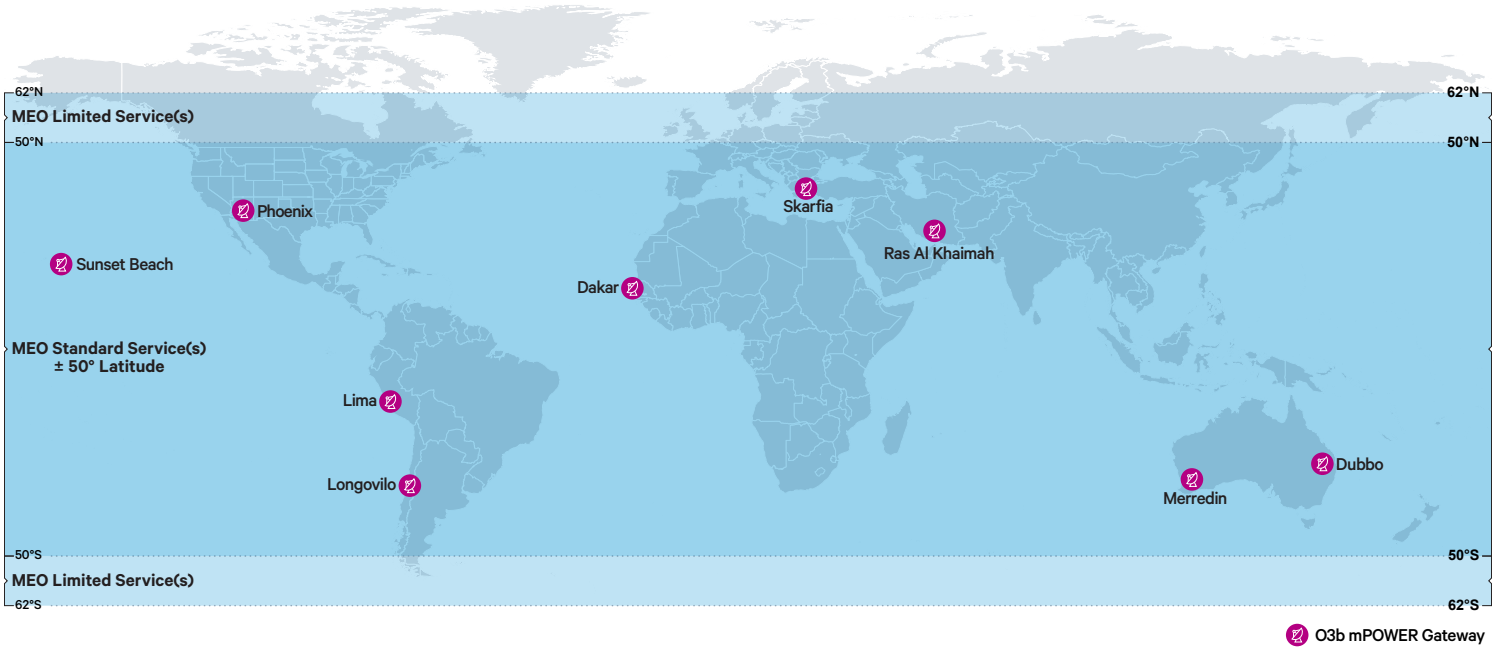
Providing unparalleled high performance, enterprise level network solutions—fully managed and supported by SES Space & Defense.

- Uncontended, high-throughput, low-latency connectivity up to 1.5Gbps to a single ship, or up to 1.8Gbps to remote land-based locations or forward operating bases.
- Access to a full range of operational, logistical, and back-office applications with predictable quality of service.
- Enabling private, dedicated connectivity to top-tier cloud service providers and easily scales to enable a range of new use cases.

O3b mPOWER Sovereign Services

Enabling governments to maximize independent control, reliability, and security of uncontended, high-throughput, low-latency SATCOM connectivity while operating on a commercial satellite system.

- Traffic is routed through a private satellite connection and lands at government-secure gateways.
- Open architecture enables customer-preferred hardware solutions, protected tactical waveforms, and military encryption.
- Fully digital payloads enable flexible bandwidth allocation and steerable beams with location obfuscation.



O3b **mPOWER**

PERFORMANCE ABOVE ALL

Learn more about our full portfolio of services and solutions at **sessd.com**