



## SOVEREIGN AERO-ISR mPOWERED

Maximise your mission effectiveness

High-speed data links enable optimised mission planning, shorter missions, and the return of higher-quality intelligence in real time.

### INDUSTRY PERSPECTIVE

As airborne intelligence, surveillance and reconnaissance (ISR) missions deploy a growing number of sophisticated next-generation sensors, the amount of data generated and returned for analysis and dissemination is increasing too. Conventional satellite communication solutions usually throttle data on the aircraft's return link. This hampers mission planning and may result in the

need to make multiple passes over a surveillance area to meet mission objectives. Longer missions increase the risk of detection, requiring the possible deployment of countermeasures.

High-speed data links enable optimised mission planning, shorter missions, and the return of higher-quality intelligence in real time.





Constellation

Satellite availability SLA

Gateway

Terminal options

Antenna/BUC

Capacity packages

Coverage

Within +/- 50° latitude

TECHNICAL SPECIFICATIONS

The Sovereign Aero-ISR mPOWERED service is available in three packages—Tier 1, Tier 2, and Tier 3.

O3b mPOWER

99.5%

Sovereign government gateway

Tier 1

**Option 1**  
Customer-provided SES-certified<sup>1</sup> modems and terminals

**Option 2**  
SES-provided 12" (30cm), 18" (46cm), or 9.8" x 10.6" (25cm x 27cm) terminal and modem or micromodem, one-time payment

**Option 3**  
Same equipment as above, payment plan included in MRC<sup>2</sup>

25W, 20W

**Option 1**  
FWD: 512Kbps | RTN: ≤10Mbps

**Option 2**  
FWD: 1Mbps | RTN: ≤25Mbps

**Option 3**  
FWD: 1Mbps | RTN: ≤45Mbps

**Option 1**  
Regional service within customer-defined operating region (OR) with radius ≤1,500km

**Option 2**  
Field of view (no intra-gateway roaming)

Tier 2

**Option 1**  
Customer-provided SES-certified<sup>1</sup> modems and terminals

**Option 2**  
SES-provided 12" (30cm), 18" (46cm), 9.8" x 10.6" (25cm x 27cm), or 9.8" x 5.3" (25cm x 13.5cm) terminal and modem or micromodem, one-time payment

**Option 3**  
Same equipment as above, payment plan included in MRC<sup>2</sup>

25W, 20W

**Option 1**  
FWD: 512Kbps | RTN: ≤10Mbps

**Option 2**  
FWD: 1Mbps | RTN: ≤25Mbps

**Option 3**  
FWD: 5Mbps | RTN: ≤25Mbps

**Option 1**  
Regional service within customer-defined OR with radius ≤900km

**Option 2**  
Field of view (no intra-gateway roaming)

Tier 3

**Option 1**  
Customer-provided SES-certified<sup>1</sup> modems and terminals

**Option 2**  
SES-provided 9.8" x 5.3" (25cm x 13cm), or 5" x 5.3" (13cm x 13.5cm) terminal and modem or micromodem, one-time payment

**Option 3**  
Same equipment as above, payment plan included in MRC<sup>2</sup>

8W or 25W

**Option 1**  
FWD: 512Kbps | RTN: ≤3Mbps

**Option 2**  
FWD: 512Kbps | RTN: ≤6Mbps

**Option 1**  
Regional service within customer-defined OR with radius ≤300km

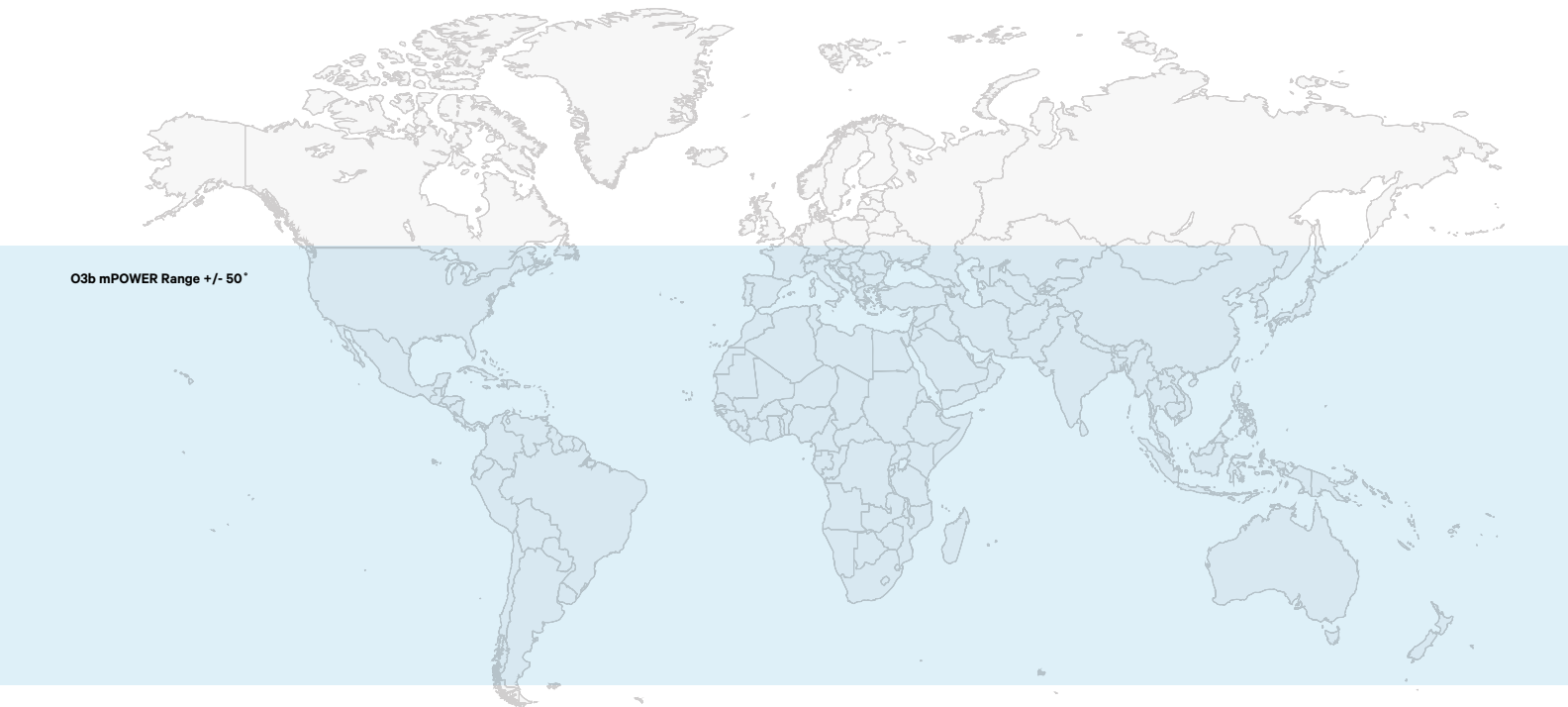
<sup>1</sup> Certification enabled by the SES Government Technology Certification (GTC) process. Full details provided upon request.

<sup>2</sup> In Option 3, equipment is amortised over the base years of the original contract. Once the contract is complete, the customer retains complete ownership of the equipment. If the customer chooses to renew the contract, the MRC is updated to no longer include equipment costs.

Sovereign Aero-ISR mPOWERED offers a range of features to meet the requirements of government users:

- Flexibility to support the right form factor is especially important for unmanned aerial vehicles (UAVs). With O3b mPOWER, a software interface connects to the modem that meets the size, weight, and power (SWaP) requirements of the aerial platform in use.
- The use of customer-selected terminal hardware (subject to certification) ensures that existing equipment in your network can continue to be used to create mission-optimised ground elements.
- Ability to execute secure mobility, land traffic at sovereign gateways, define unique government private network topologies, and use the waveform and encryption of your choice.
- Sovereign steerable beams and government encryption solutions—including High Assurance Internet Protocol Encryptor (HAiPE)—with inherent anti-jam and resilience features.

## GLOBAL COVERAGE MAP



## REIMAGINE YOUR MISSIONS WITH SOVEREIGN AERO-ISR mPOWERED

Optimising your airborne ISR mission includes ensuring an aircraft spends as little time as possible to meet an objective, while returning the maximum amount of high-quality intelligence.

By enabling ample, dynamically reconfigurable return bandwidth, Sovereign Aero-ISR mPOWERED helps you get the most from your modern intelligence-gathering aerial systems.

Learn how [Sovereign Aero-ISR mPOWERED](#) can help you maximise mission effectiveness.



Learn more about our full portfolio of services and solutions at [ses.com](#).

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