Connect On-the-Move with the **Starwin ESA 50 Terminal**

Powered by Intelsat FlexMove

A compact, cost-effective satellite terminal for Comms-on-the-Move (COTM)

- Innovative design combines an Electronically Steerable antenna with mechanical tilting abilities to provide far-reaching satellite connectivity
- All required components (antenna, ACU, modem, up & down converter) are contained and sealed in one integrated compact unit
- Ideally suited for passenger vehicles, trucks and heavy equipment.
- Always on, reliable, global coverage on-the-go.

Operating over Intelsat's High Throughput Satellite network, the Starwin ESA 50 terminal quickly establishes satellite connectivity, maintaining a stable connection even when moving at high speeds. With its advanced electronic steering phased array (ESA) antenna and unique mechanical rotating mount, the Starwin ESA 50 provides complete and cost-effective connectivity for mobile operations requiring coverage in remote corners of the world.

The durable enclosure and integrated design enables use in a wide range of tough environmental conditions

Electronically steered beam switching automatically provides uninterrupted connectivity while in motion

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As the world's first high throughput satellite high throughput (HTS) satellite service for land mobility, FlexMove enables global, resilient, on-demand connectivity – even in the most remote and challenging locations.

Powered by the Intelsat global, multi-layered high-throughput satellite (HTS) network

Redundant and survivable solution for mission-critical, data-intense applications

INTELSAT | StarWin

The Starwin ESA 50 Terminal

- Offers a competitively priced COTM solution for all types of moving assets
- Lightweight and compact for installation on passenger vehicles and heavy equipment
- Offers advantages of both ESA technology and mechanical steering to connect to satellites at lower angles than other ESAs for broader global coverage

SPECIFICATIONS

MODEL NO
HSA49125MUF
Note: Install kit is ordered separately

ANTENNA TYPE
GEO Ku-band hybrid mechanical ESA COTM terminal

DIMENSIONS
Operational with mechanical tilting base (L×W×H): 610x510x330mm (24" x 20" x 13")
Stowed: 610x510x175mm (24x20x7")

WEIGHT
≤ 17 kg (37.5 lbs)

FREQUENCY RANGE:
Tx: 13.75-14.50 GHz
Rx: 10.70-12.75 GHz

SCAN MODE
Hybrid Steering (2D electronic steering + 2D mechanical steering)

APPLICABLE SATELLITE TYPE
Ku HTS GEO (MEO and LEO models in development)

BEAM SWITCHING TIME
≤ 3ms

MODEM
Integrated IQ200 and optional external modem

POLARIZATION
Full polarization, automatic switching

EIRP
≥ 49dBW - Normal

G/T
≥ 9.5dB/K - Normal

AZIMUTH RANGE
Unlimited

HYBRID ELEVATION STEERING RANGE
70°-110° - Scanning Gain Loss ≤ 0.1dB

SCANNING GAIN LOSS (HYBRID STEERING)
≤ 0.1dB@ Elevation from 70-110°
≤ 0.8dB@ Elevation 60°
≤ 2dB@ Elevation 45°
≤ 3dB@ Elevation 30°
≤ 4.5dB@ Elevation 15°

POWER INPUT
AC 90 ~ 264V/50Hz (with adapter)
DC 28V±5% (without adapter)

POWER CONSUMPTION
≤ 350W

WIND SPEED
150km/h (93mph)

INGRESS PROTECTION
IP66. Waterproof quick plugs for power and LAN connection

HUMIDITY
5 – 95%

TEMPERATURE TOLERANCE
Storage: -40°C to +85°C (-40°F to 185°F)
Operation: -25°C to +55°C (-13°F to 131°F)

INTERFACES
WiFi, Ethernet LAN and RF for external modem

CERTIFICATIONS
FCC, CE, RED and RCM (Australia)

INTELSAT

To learn more about Intelsat FlexMove, visit intelsat.com/land-mobility or contact your local sales representative.

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