



PPA-HYBRID

Ultimate Portability

The PPA-HYBRID is a lightweight, compact Ku/Ka-band SATCOM-On-The-Move solution. It supports legacy wide-beam and HTS GEO satellites while remaining modem-agnostic for seamless access to GEO, MEO, and LEO networks. Its rugged, all-in-one design with ultra-low power consumption ensures secure, reliable connectivity.

Advanced Electronic Steering and Design

Featuring fully electronic, no-moving-parts array antennas, the system delivers exceptional beam agility for precise LEO tracking. Each unit integrates its own radome, eliminating the cost and performance loss of external versions. Built on a scalable subarray architecture, transmit and receive antennas are optimized independently.

Unmatched Performance and Scalability

The PPA-HYBRID offers effortless installation and rapid volume assembly at a cost-effective price. By combining agility, resilience, and scalability into a single antenna, it redefines satellite connectivity for mission-critical users.

Key Features

- Available in Ku Band
- Optimised Performance
- Seamless Connectivity
- Rugged Reliability
- Simplified Installation
- Flexible Network Integration
- Rapid Deployment
- SAR System Compatibility; fully compatible with GNSS, including Galileo, Glonass, and GPS
- Enhanced Accuracy
- Low Maintenance





TECHNICAL SPECIFICATIONS / PPA-HYBRID Scan the QR code for more information.

GENERAL SPECIFICATIONS

Antenna Type
ACU
Modem
Power Supply
Power Consumption
Data Interfaces

PPA-HYBRID

Enhanced Electromechanical Phased Array Antenna
Internal Acu
Integrated Modem
220V AC/24V DC
≤50W
Ethernet port

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Pol
G/T (dB/k)
EIRP (dBW)

PPA-HYBRID

13.75~14.50
10.70~12.75
Linear
>2 @12.5GHz
>25 @14.25GHz

MECHANICAL SPECIFICATIONS

Tracking Range
Locking Time
Tracking Accuracy
Weight
Dimensions

Azimuth

0°~360°
≤120s
≤0.2° RMS
≤4kg
\$400mmx70mm (without radome)

Elevation

20°~ 90°

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Protection Grade

PPA-HYBRID

-40°C~60°C
IP66 (Antenna)

Specifications are subject to change.