PPA-IOT

The PPA-IOT is an ultra-light, ultra-slim Ku-band phased array terminal built for reliable, on-the-go connectivity in low data rate applications such as IoT sensors and VoIP. Compact and highly portable, it integrates an ESA antenna, modem, and ACU into a single unit, enabling one-person setup in just minutes.

Ideal for rapid deployment, the terminal supports both standard WiFi VoIP and cable VoIP phones, and can be registered on any SIP server to deliver secure, flexible VoIP-over-satellite services—whether for private networks or public use. Powered by our innovative subarray architecture, the antennas are built on modular building blocks that allow transmit and receive sizes to be optimized independently. This scalable design not only maximizes performance but also enables high-volume production, economies of scale, and fast deployment—ensuring operational readiness without compromise.

Key Features

➤ **Optimised Performance** – Designed to deliver maximum efficiency and reliability in every mission.

➤ **Seamless Connectivity** – Ensures uninterrupted communication across networks and platforms.

➤ **Rugged Reliability** – Engineered to perform even in the harshest environments.

➤ **Simplified Installation** – Quick, hassle-free setup with minimal effort.

➤ **Flexible Network Integration** – Easily connects with customer networks for smooth data exchange.

➤ **Rapid Deployment** – Lightweight and portable, ready for use within minutes.

➤ **SAR System Compatibility** – Fully compatible with GNSS, including Galileo, Glonass, and GPS.

➤ **Enhanced Accuracy** – Boosts throughput and improves localisation precision.

➤ **Low Maintenance** – Reliable design requiring no recalibration and minimal servicing.

PALS® | Communications & Technology

PPA-IOT

GENERAL SPECIFICATIONS

Antenna type	Phased Array Antenna
Tracking	Azimuth: manual adjustable; Elevation: 20°~90° electronic
Locking time	≤120s
Tracking accuracy	≤0.2° RMS
Weight	≤3.5kg
Power consumption	≤40W 24VDC
Dimensions	300mm×230mm×45mm (L×W×H)
Integrated parts	Antenna control, Spread Spectrum (DSSS) Modem, Power supply

RF CHARACTERISTIC

Frequency (GHz)	Tx	13.75~14.50
	Rx	10.70~12.75
Pol		Linear / Circular
G/T		≥2dB/K@12.5GHz
EIRP		≥25dBW@14.25GHz

ENVIRONMENTAL SPECIFICATION

Temperature	-40°C~60°C
Protection	IP65

Compliances / Certificates	THOR 7 ARABSAT measat THAICOM EUTELSAT TURKSAT

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Specifications are subject to change