PPA-IOT

Instant Connectivity

Engineered for low-data IoT sensors and VoIP applications, the PPA-IOT delivers reliable on-the-go satellite connectivity in an ultra-compact form. The all-in-one design integrates ESA antenna, modem, and ACU into a single lightweight unit—allowing one-person deployment in minutes, wherever the mission demands.

Voice-Ready Intelligence

Beyond data, the terminal excels at voice communications. Supporting both standard WiFi VoIP and cable-connected VoIP phones, it registers seamlessly on any SIP server. Whether for private networks or public use, it delivers secure, flexible VoIP-over-satellite services with crystal-clear reliability in remote locations.

Scalable by Design

Built on advanced subarray architecture, the PPA-IOT features modular building blocks that optimize transmit and receive paths independently. This scalable foundation maximizes spectral efficiency while enabling high-volume production and rapid field deployment. Operational readiness is guaranteed—without complexity, without compromise.

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-IOT**

GENERAL SPECIFICATIONS

PPA-IOT

Antenna Type	Phased Array Antenna
Integrated Parts	Antenna control, Spread Spectrum (DSSS) Modem, Power supply
Power Consumption	≤40W 24VDC

RF CHARACTERISTIC

PPA-IOT

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

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation
Tracking Range	Manual Adjustable	20°~90° Electronic
Locking Time	≤120s	
Tracking Accuracy	≤0.2° RMS	
Weight	≤3.5kg	
Dimensions	300mmx230mmx45mm (LxWxH)	

ENVIRONMENTAL SPECIFICATIONS

PPA-IOT

Temperature Range Operational	-40°C~60°C
Protection Grade	IP65

Specifications are subject to change.