



Innovation in Antenna Technology



HiSat-3000RX is a phased array module operating in Ku-Band. The electronic beam scanning in elevation and in polarization allows Ku-band satellite mobile reception in extreme conditions. With its low-profile, HiSat-3000RX is an ideal replacement of a standard dish reflector for mobile platforms.

HiSat-3000RX can be used in any satellite network to provide affordable, broadband connection via satellite to mobile ground, airborne, and maritime platforms. The modules are 28x21 cm standard size and can be combined to meet your antenna size requirements.

TECHNOLOGY

Our patented antenna technology is the basis for the low profile modular phased array aperture. It offers broader scan capabilities and lower element count than any other phased array technology. HiSat-3000RX can be used where low profile and stealth communication is needed.

We can meet your G/T requirements in a unique and cost effective manner by combining the modules. The modules are rugged and highly reliable.

MARKET AND APPLICATIONS

- » Professional/military satcom on the move
- » Professional/military satcom on the pause
- » Mobile broadband satellite networks
- » Mobile DVB-S terminals
- » Professional land mobile satellite on the move terminals
- » Airborne mobile broadband systems



SPECIFICATIONS

Antenna Characteristics

Frequency RX-Band	10.7 – 12.75 GHz
Polarization	Dual Linear with electronic polarisation tracking
G/T	min +2 dB/K @ 20° elevation max +6.7 dB/K @ 90° elevation
Scanning range	Electronic scan in elevation: 20-90 degrees (from horizon)
Cross Polarisation Discrimination	> 15 dB
Temperature Range	-55 : +80 °C
Output	SMA
Size	Rx 280x210x40 mm Tx 220x180x40 mm
Housing Characteristics	Metal enclosure for installation on custom or existing positioners

FEATURES AND BENEFITS

Electronic scan

- » Higher MTBF
- » Instantaneous scan not subject to accelerations
- » Tracking (dithering) movements can be implemented without impacting the MTBF (no friction)
- » No problems of reference loss, drift,... associated with motors
- » Enabling new smart tracking solutions

Modular

- » Available modules can achieve any aperture size
- » Very low NRE cost for different aperture size
- » A single defective module can be identified and replaced easily
- » No efficiency loss with size increase

Low Profile

- » Allows stealth integration on vehicles
- » Aerodynamic shape
- » Minimum impact on vehicle height
- » Discrete



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