

SkyARX

Broadband, Seamless and Resilient SATCOM for Critical Missions

The SkyRX is engineered to provide robust, real-time broadband communication for manned and unmanned aerial platforms operating in mission-critical airborne environments. Supporting applications such as intelligence, surveillance, reconnaissance (ISR). SkyARX ensures continuous connectivity under airborne conditions.

Key Features

- Interoperability with Land, Naval and Air Forces
- High-Speed Azimuth/Elevation and Cross Elevation (4-axis) Tracking
- P2P and P2MP Support
- Global Operational Capability
- Ruggedized for Harsh Environments
- Electronically Steered Array (ESA)

Operational Advantages

- Maintains Uninterrupted Communication During High-Speed Flight
- Supports Secure, Real-Time Command and Control (C2) Functions
- Stay Connected Anywhere with Broadband Satellite Links that Keep Your Missions Flexible and Ready for Anything



SATCOM Terminal



Scan for
online datasheet

Antenna Specifications				
Reflector Size	12"	18"	20"	1000x600mm (ESA)
Frequency	Ku Band : Receive 10.95 - 12.75 GHz, Transmit 13.75 - 14.5 GHz Ka Band : Receive 17.7 - 21.2 GHz, Transmit 27.5 - 31.0 GHz			
EIRP	Ku Band : 44 dBW Ka Band : 50 dBW	Ku Band : 48 dBW	Ku Band : 52 dBW Ka Band : 54 dBW	Ku Band : 48 dBW (Elevation 90°) Ka Band : 50 dBW (Elevation 90°)
G/T	Ku Band : 7.8 dB/K Ka Band : 11.5 dB/K	Ku Band : 11 dB/K	Ku Band : 11.5 dB/K Ka Band : 15 dB/K	Ku Band : 11 dB/K (Elevation 90°) Ka Band : 12 dB/K (Elevation 90°)
Tracking Accuracy	0.2 °			
Power & Consumption	28 VDC / Max. 700W	28 VDC / Max. 400W	28 VDC / Max. 450W	28 VDC / Max. 560W
Weight	40Kg	25Kg (Without Radome)	45Kg	25Kg
Operating Temperature	-32°C to +50°C	-40°C to +55°C	-40°C to +55°C	-25°C to +55°C
Storage Temperature	-40°C to +60°C			

Pedestal Movement				
Azimuth	360° continous			
Elevation	5° - 90°			0° to 60°
Cross Elevation	4 axis / + - 13° (Optional)			
Polarization	+ - 135°			Full Polarization
Velocity & Acceloration	Ku Band Azimuth: 150°/s , 500°/s² Elevation : 100°/s , 500°/s² Polarization : 100°/s , 500°/s² Ka Band Azimuth: 200°/s , 500°/s² Elevation : 200°/s , 500°/s²	Ku Band Azimuth: 30°/s , 45°/s² Elevation : 15°/s , 45°/s² Polarization : 20°/s , 45°/s² Ka Band Azimuth: 200°/s , 500°/s² Elevation : 200°/s , 500°/s²	Ku Band Azimuth: 150°/s , 200°/s² Elevation : 150°/s , 200°/s² Polarization : 150°/s , 200°/s² Cross Elevation : 150°/s , 200°/s² Ka Band Azimuth: 200°/s , 500°/s² Elevation : 200°/s , 500°/s²	
Certificates	MIL STD 810, MIL STD 461			

Modem	
Waveform	DVB S2
Power & Consumption	28 VDC / Max. 70W
Weight	5Kg
Operating Temperature	-40°C to +50°C
Storage Temperature	-55°C to +70°C
Encryption	AES256
Certificates	MIL STD 810, MIL STD 461