

SkyARX

Broadband, Seamless and Resilient SATCOM for Critical Missions

The SkyARX 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

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"
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
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
Tracking Accuracy	0.2°		
Power & Consumption	28 VDC / Max. 700W	28 VDC / Max. 400W	28 VDC / Max. 450W
Weight	40Kg	25Kg (Without Radome)	45Kg
Operating Temperature	-32°C to +50°C	-40°C to +55°C	-40°C to +55°C
Storage Temperature	-40°C to +60°C		

Pedestal Movement			
Azimuth	360° Continuous		
Elevation	5° - 90°		
Cross-Elevation	4-axis / ± 13° (Optional)		
Polarization	± 135°		
Velocity & Acceleration	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

Brochure Revision: Rev. 01. CTech reserves the right to make changes to the information in this brochure without prior notice.