

# BROADBAND SATCOM SOLUTIONS

POWERFUL SOLUTIONS FOR AIR & LAND PLATFORMS



## FEATURES

- Ku Band
- Application based modems
- Optimized Size Weight and Power (SWAP)
- 3 axis stabilization using various IMU and INS/GPS
- Optional Signal RF-tracking
- ITU compliant
- MIL-STD 810 certification
- MIL-STD 461 certification

## OVERVIEW

In today's information-based environment, military and governmental mobile users need fast, real-time access to information, headquarters and other users. The powerful CTech satcom-on-the-move (beyond-line-of-site, BLOS) capabilities provides reliable, secure, high speed connectivity to air and land platforms—even fast moving edge users. We offer increasingly capable, compact and secure satellite communication terminals to manned /unmanned air platforms and tactical ground forces.



Our Satcom-on-The-Move systems support Ku frequency band. By the superior RF performance and dynamic response under the most challenging conditions, it meets the broadband needs of mission land vehicles, uavs, aircrafts and business jets, as well as helicopters. CTech provides complete, pre-assembled and qualified systems, configurable from range of modular systems- including modems. Additionally, CTech provides ground stations to help establish and scale user networks. CTech's Devsat Series SOTM Terminals complies with the most stringent regulations and meets the MIL-STD standards.

PARAMETERS	KU-12”	KU-14”	KU-18”	KU-20”
Type	Ku-Band	Ku-Band	Ku-Band	Ku-Band
Frequency Range - Tx	13.75 – 14.50 GHz	13.75 – 14.50 GHz	13.75 – 14.50 GHz	13.75 – 14.50 GHz
Frequency Range - Rx	10.95 – 12.75 GHz	10.95 – 12.75 GHz	10.95 – 12.75 GHz	10.95 – 12.75 GHz
Antenna Size - Diameter	30.48 cm	35.56 cm	45.72 cm	50.8 cm
Polarization	Linear V/H	Linear V/H	Linear V/H	Linear V/H
EIRP	47.4 dBW	48.3 dBW	50.4 dBW	51 dBW
G/T	7.8 dBK	9.1 dBK	11.3 dBK	12.2 dBK
Pedestal Type	Elevation over Azimuth powered by Direct Drive Technology			
Azimuth Range	Continuous 360°			
Elevation Range	5° to 85°			
Polarization Range	±135°	±135°	±135°	±135°
Velocity	Az 150°/s- El 100°/s-Pol 100°/s		Az 30°/s- El 20°/s-Pol 20°/s	
Acceleration	Az 500°/s²- El 500°/s²-Pol 500°/s²		Az 45°/s²- El 45°/s²-Pol 45°/s²	
Tracking Accuracy	< 0.2°			
Waveform	DVB-S2 or EPM			
Weight	Antenna with ACU 23 kg Modem 5.4 kg	Antenna with ACU 23 kg Modem 5.4 kg	Antenna with ACU 16.5 kg Modem 4 kg	Antenna with ACU 16.5 kg Modem 4 kg
Environmental Conditions	MIL-STD-810 G /MIL-STD-461			