

# BROADBAND SATCOM SOLUTIONS

POWERFUL SOLUTIONS FOR AIR & LAND PLATFORMS



## FEATURES

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

DEVSAT-EPM-8000  
Multi Channel

## 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.



Airborne Modem

Our Satcom-on-The-Move systems supports X, Ku and Ka frequency bands. 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 standarts.

PARAMETERS	DEV-KU-18 (10 MBPS)	DEV-KU-18 (20 MBPS)	DEV-KA-12	DEV-KU-12
Type	Ku-Band	Ku-Band	Ku-Band	Ku-Band
Frequency Range - Tx	13.75 – 14.50 GHz	13.75 – 14.50 GHz	29.50 to 30.0 GHz	13.75 – 14.50 GHz
Frequency Range - Rx	10.95 – 12.75 GHz	10.95 – 12.75 GHz	19.70 to 20.2 GHz	10.95 – 12.75 GHz
Antenna Size - Diameter	45.72 cm	45.72 cm	30 cm	30 cm
Polarization	Linear V/H	Linear V/H	Circular	Linear V/H
EIRP	45 dBW	48 dBW	51 dBW	43 dBW
G/T	11 dBK	11 dBK	10 dBK	11 dBK
Pedestal Type	Elevation over Azimuth powered by Direct Drive Technology			
Azimuth Range	Continuous 360°			
Elevation Range	5° to 85°			
Polarization Range	±135°	±135°	NA	±135°
Velocity	Az 30°/s- El 15°/s-Pol 20°/s		Az 30°/s- El 15°/s	Az 30°/s- El 15°/s
Acceleration	Az 45°/s <sup>2</sup> - El 45°/s <sup>2</sup> -Pol 45°/s <sup>2</sup>		Az 50°/s <sup>2</sup> - El 50°/s <sup>2</sup>	Az 50°/s <sup>2</sup> - El 50°/s <sup>2</sup>
Tracking Accuracy	Better than 0.2° RMS			
Waveform	DVB-S2 or EPM			
Data Rate	10 Mbps	20 Mbps	13 Mbps	8 Mbps
Weight	Antenna with ACU 16.5 kg Modem 5.4 kg	Antenna with ACU 16.5 kg Modem 5.4 kg	Antenna with ACU 16.5 kg Modem 4 kg	Antenna with ACU 9 kg Modem 4 kg
Environmental Conditions	MIL-STD-810 G /MIL-STD-461			