COMMUNICATION SYSTEMS

DEV-KA-12

NEW ULTRA SMALL AIRBORNE TERMINAL

Airborne Modem

ULTRA SMALL FOOTPRINT TERMINAL

Airborne Antenna

OVERVIEW

The CTech DEVSAT Dev-Ka-12 Terminal is a complete airborne satellite terminal with an ultra small, compact and efficient 12” (30cm) antenna and lightweight equipment providing IP communications on the move.

With this Ka-band terminal corporate and government users can send live, full motion high definition video over the sky, make secure data communication and perform mission critical communications during flight.

Powered by integrated technologies and robust waveform this terminal delivers streaming data rates up to 13 Mbps. Ka-band SOTM airborne terminal is ultra-small and indigenous now.

TURKISH AEROSPACE SUBSIDIARY

AIRBORNE TERMINAL FEATURES

Secure High Speed Communication

- Protected IP traffic with AES encryption
- Up to 13 Mbps streaming return link
- Up to 2 Mbps forward link
- Qualified for 40,000 ft altitude
- Automatic spotbeam switching
- ITU-R S.524-9 Compliant
- MIL-STD-810G Compliant
- MIL-STD-461E Compliant

Userfriendly Design For Aircraft Requirements

- 30 cm antenna mounts on fuselage of aircraft
- Modem can be located any distance from antenna
- Accurate satellite tracking with 0.2° RMS
- 28 VDC powered
- Only 3 LRUs

ENVIRONMENTAL & PHYSICAL CHARACTERISTICS

30 cm Antenna and ACU

- Power : <550 W @ 28VDC
- Operating Temperature : -40° to +55° C
- Storage Temperature : -55° to +70° C
- Weight : 16 kg with ACU
- MIL-STD-810G/MIL-STD- 461E/MIL-STD-704

CTech Airborne Modem

- Power : 50 W @ 28VDC
- Operating Temperature : -40° to +55° C
- Storage Temperature : -55° to +70° C
- Weight : <2.25kg
- Dimensions : 194 mm x 150 mm x 89.5 mm
- MIL-STD-810G/MIL-STD- 461E/MIL-STD-704

Ground Modem

SPECIFICATIONS

OPERATING FREQUENCY

Transmit : 29.5 to 30.0 GHz
Receive : 19.7 to 20.2 GHz

MODULATION & FEC

Forward/Return Link : Variable Coding and Modulation, VCM and ACM
Waveform : DVB-S2X

TRANSMISSION RATES

Forward Link : Up to 2 Mbps
Return Link : Up to 13 Mbps

RF/TRACKING PERFORMANCE

EIRP : 50.6 dBW
G/T : 11.5 dB/K

Axes

- Azimuth 360° continuous
- Elevation: 5° to 175°
- Polarization: Circular LH&RH

Velocity

- Azimuth 30°/s
- Elevation 15°/s

Acceleration

- Azimuth: 50°/s²
- Elevation: 50°/s²

Interfaces

- Data: 10/100/1000 BASE-T Ethernet
- Data Serial Interfaces: RS-232/RS-422
- Console: RS-232/RS-422
- INS/GPS: RS-232/RS-422/ARINC-429
- Encryption : AES-256 FIPS 140-2

Teknopark İstanbul 1. Blok Kat 2, Pendik, İstanbul / TURKEY
T : +90 850 480 77 44 | +90 216 290 52 86

www.ctech.com.tr