



DEVSAT-EPM-1000

## AUGMENTING YOUR GOVERNMENT SATELLITE RESOURCES by OFFERING MILITARY GRADE PROTECTION

- Strong protection against jamming and interception
- Low probability of Interception
- Advanced Quality of Service (QoS) supported by IP networking
- One modem for fixed, land mobile, naval and airborne applications
- SOTM with ESM and EMCON features
- MIL-STD-810G and MIL-STD-461E compliant



DEVSAT-EPM-8000

Satellite Communication System

# DEVSAT EPM MODEM

Secure SATCOM Modem



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## Secure SATCOM Modem

MULTI CHANNEL



DEVSAT-EPM-8000

SINGLE CHANNEL



DEVSAT-EPM-1000

### SYSTEM CHARACTERISTICS

- Protected communications for IP sub-networks
- Compatible with the STANAG 4606 Ed. 3 Waveform
- Star or mesh connected network topologies
- Applicable to operations over SHF (C, X, Ku & Ka) Bands
- 2 form factor: Single Channel 1U, Multi Channel 8U

### SECURITY

- TRANSEC protection enabled by using Orthogonal Frequency Hopping Multiple Access (OFHMA)
- NETSEC (Signaling Security)
- Optional COMSEC (AES)

### SATCOM ON THE MOVE (SOTM) CAPABILITY

- Short re-synchronization times
- High Doppler resistance
- DSSS capability for small antennas

### BANDWIDTH OPTIMIZATION

- Advanced ACM technology
- Dynamic Rate Adaptation
- Demand Assigned Multiple Access / DAMA
- Uplink Power Control

### MODULATION AND DATA RATES

- FEC : Reed Solomon / Turbo Code
- MODCOD: BPSK 1/3, 1/6; QPSK 1/2, 1/3, 1/4, 2/3, 3/5; 8PSK 1/2, 1/3 and more
- Data Rates (bps): 20k, 25k, 32k, 40k, 50k, 64k, 128k, 256k, 384k, 512k, 768k, 1M, 1.2M, 1.6M, 2M, 3M, 4M, 8M, 16M, 32M, 50M, 100M

### CONTROL AND MONITORING

- PC Based GUI for local Control and Monitoring
- SNMP interface with the customer HQ

### FREQUENCY REFERENCE

- High stability internal frequency reference
- Input for optional external frequency reference

### RF CHARACTERISTICS

- L-Band: 950 to 1450 MHz
- OFHMA over 500 MHz bandwidth
- Output Level: -25 to 0 dBm
- Output Level: -70 to -13 dBm

Military forces and government rely on robust, secure and jamming resistant communications capabilities with a low probability of Interception in friendly and hostile environments. Similar communication capabilities are needed for government operations during emergencies, natural disasters and hazardous conditions.

CTech's DEVSAT EPM Modem is intended for military and government applications, and can satisfy all the requirements for fixed, land-mobile, naval and airborne SATCOM use cases and scenarios. It is the most spectrum efficient and secure high speed SATCOM modem solution available in the market, today.

By using a mix of fixed, transportable and on-the-move terminals at the same time, reliable, flexible, survivable and secure networks can easily be established, managed and operated under extreme circumstances. CTech's DEVSAT EPM Modem is a world class SATCOM modem solution available for military, government and official applications.

It is compatible with NATO standards, however national waveforms can easily be implemented on the same flexible design platform. Maintenance and upgrades can easily be performed by SW/FW changes. CTech's proprietary management system provides users with flexible planning, control and monitoring tools while sustaining end-to-end secure and reliable communication links and networks.

