



AVX-620 Aviation Satellite Transceiver

U.S. Army photo courtesy of 25th Combat Aviation Brigade

Mobile Datacom | AVX-620

Helicopters have a need for locating friendly and hostile forces on aircraft displays and in their command and control centers. The AVX-620 aviation tracking and messaging transceiver is designed for mobile tracking and messaging applications on fixed and rotary wing aircraft.

The AVX-620 transceiver enables the display of positions for U.S. and coalition air and ground forces and C2 communication through its integration in the U.S. Army's Blue Force Tracking system. Missions can be planned knowing exactly where forces are, and messages can be sent to individual assets in near real-time.

Features

- Full Duplex
- Designed to meet MIL-STD-810F
- Designed to meet MIL-STD-461F
- MIL-STD 1275B Surge/Spike Power Projection Circuit
- Contains embedded FIPS 140-2, Level 2 validated module
- FCC/ETSI compliant
- Supports AES128, AES192, AES256

Benefits

- Flexible data rates 650 bps to 128 Kbps
- Secure and reliable two-way messaging
- Provides timely, relevant on-the-move battle command information
- Operates over multiple L-band satellites worldwide on fully-encrypted packet data network
- Remote RH/LH antenna switching capability
- Low probability of intercept
- Low probability of detection
- FIPS 140-2 Level 2 Validated Encryption

Specifications

Physical	
SIZE	Transceiver: Length 7" (including connectors) Width 4.5" Height 4.5"
WEIGHT	Transceiver: 2.5 lbs.
Environmental	
OPERATING TEMPERATURE	-40°C to +71°C
OPERATING CONDITIONS	100% relative humidity
ALTITUDE	0-20,000 feet operating and storage
Interface Port	
Supports RS-422 serial and Ethernet data protocols	
Operational	
POWER CONSUMPTION	Transmit = 2A @ 28VDC Receive = 500 mA @ 28VDC
TRANSMIT POWER	<5 W
INPUT VOLTAGE RANGE	18VDC to 33VDC
MODULATION	Direct Sequence Spread Spectrum
Communication	
FULL DUPLEX	Yes
DATA PACKET LENGTHS	Up to 1500 Byte in Ethernet mode and up to 100 Byte using RS-422
TRANSMIT FREQUENCY	1610—1660.5 MHz
RECEIVE FREQUENCY	1525—1559 MHz
Data Rates Available	
FORWARD LINK	650 bps, 1.3 Kbps, 2.6 Kbps, 5.2 Kbps, 10.4 Kbps, 20.6 Kbps, 52 Kbps, 128 Kbps
RETURN LINK	650 bps, 1.3 Kbps, 2.6 Kbps, 4.9 Kbps
Antenna	
50 ohm—external LHC and RHC polarizations feeds	
Security	
FIPS 140-2, Level 2 validated module	
End-to-End Data Encryption	



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Command & Control Technologies™

275 West Street
Annapolis, MD 21401 USA
Toll Free: 1.800.557.5869
Outside US: +1.410.263.7616
www.comtechtel.com