



## Features & Benefits

- Low required power and small size and weight footprint for installation flexibility.
- Compatible with short-range tactical UAVs and larger manned and unmanned vehicles.
- Multi-band reception and transmission (UHF/L/S/C/Ku). Enables operation anywhere in the world, with most existing data links.
- AES encryption; optional. Facilitates secure communications.
- Integrated video compression/ decompression. Simplifies integration and reduces required equipment.
- Transmit and receive data rates up to 45 Mbps. Provides high-capacity IP channels for voice, data and video.
- Web-browser operator and SNMP machine-to-machine control. Eases human or machine control.

## Exportable Multiband Miniature Transceiver

Exportable Multiband Miniature Transceiver (E-MMT) is a small, affordable, programmable radio that can operate in UHF, L, S, C, and Ku RF bands. MMT provides the basis for two-way transport of video and IP data between airborne platforms and land or maritime users. Paired with suitable antennas and amplifiers, MMT can provide reliable, secure communication links over hundreds of miles at data rates up to S/B 45 Mbps. MMT is waveform programmable. It has been tested with standard CDL and NATO waveforms and is certified compliant with NATO STANAG 7085 Edition 3 Implementation 1. E-MMT can receive and transmit video, telemetry data, and arbitrary Ethernet traffic and requires only a very low size, weight and power footprint. Its use of STANAG-compliant waveforms enables it to interoperate with U.S. and other NATO nation ISR equipment.

### E-MMT ISR Applications

- Manned Aircraft
- Unmanned Air Vehicles
- Fixed and Mobile Ground Stations
- Maritime and Land Vehicles
- Remote Viewing Terminals

# E-MMT

## Specifications

### Physical Specifications

Size	5.4"H x 3.5"W x 1.2"D
Weight	1.7 lbs.
Power	24 Watts (10-33 VDC)

### Environmental Specifications

Vibration and Shock	MIL-STD-810
EMI/EMC	MIL-STD-461
Operating Temperature	-40°C to + 71°C (CASE TEMPERATURE)
Operating Altitude	Up to 50,000 Feet

### Reliability

MTBF > 6,000 hours
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### RF Transmit and Receive

Ku-band	14.0-16.0 GHz
C-band	4.40-6.00 GHz
S-band	2.00-2.50 GHz
L-band	1000-1999 MHz
UHF	400-470 MHz
Other bands available	

### Data Interfaces

Ethernet	IPv4; IPv6 available Unicast or multicast Router Optional
Control interfaces	STANAG 4586, Web GUI, Common Control Interface (SNMP)
RS-232/422	
Analog RS-170 video in/out (NTSC and PAL)	
Analog audio in/out	



E-MMT runs CDL-standard, NATO STANAG 7085-compliant, and custom waveforms to interoperate with commercial data links and military intelligence, surveillance and reconnaissance systems.

### Waveforms and Data Rates (receive and transmit)

Standard CDL: 200 kbps to 45 Mbps
STANAG 7085 Implementation 1: 200 kbps to 45 Mbps
Other data rates and waveforms available

### Encryption

Advanced Encryption Standard
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