

- 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
- AES & Type-1 encryption (U.S. only) facilitates flexible and tested secure communications
- Integrated video compression/ decompression simplifies integration and further reduces terminal footprint
- · Transmit and receive data to provide high-capacity IP channels for voice, data and video
- Web-browser operator and SNMP machine-to-machine control eases human or machine control

Cubic's Multiband Miniature Transceiver (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. MMT is waveform programmable. It has been tested for interoperability with U.S. standard CDL and bandwidth-efficient CDL waveforms.

MMT can also be programmed with legacy and custom waveforms and can store more than a dozen, different, field-selectable waveform modes for even wider interoperability. MMT can operate with any CDL specification-compliant platform, including these examples:

Aircraft

Shadow, Gray Eagle, Triton, Fire Scout, Predator, Reaper, unmanned vehicles; Apache, Kiowa, MH-60 AN/ARQ-59 Hawklink helicopters; and CDL-equipped targeting pods.

Ground terminals

AN/USQ-167 CDLS, AN/SRQ-4 Hawklink, Stinger, UGDT; Vortex, Rover, OSRVT, and Video Scout remote viewing terminals.



Multiband Miniature Transceiver (MMT)

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



Specifications

Physical Specifications			
Size	5.4" H x 3.5" W x 1.2" D		
Weight	1.7 lbs		
Power	28-32W (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

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

Waveforms	
Standard CDL	
Bandwidth Efficient CDL (Modes 1-8, 101, and 104)	
466 ER	
Tactical 1.6, 3.2, 6.4	
VNW	

RF Transmit and Receive	
Ku-band	14.40-14.93 and 15.15-15.35 GHz
C-band	4.40-6.00 GHz
S-band	2.00-2.50 GHZ
L-band	1000-1999 MHz
UHF	400-470 MHz

	Video Processing
Metadata: Brite Star, MISB 601.1, MISB 601.2	MPEG-2
	Metadata: Brite Star, MISB 601.1, MISB 601.2
H.264/MPEG-4 AVC/Part 10	H.264/MPEG-4 AVC/Part 10

Encryption		
Removable Type-1 module		
Advanced Encryption Standar	rd	