



Features & Benefits

- All in one CDL Capability in a low power, small size and light weight kit to facilitate ease in testing CDL links
- Multi-band reception and transmission (UHF/L/S/C/Ku)
- Integrated multiband omni directional antenna
- Ku-band diplexer included
- Integrated GPS receiver for positional information
- AES & Type-1 encryption (U.S. only) facilitates flexible and tested secure communications

Portable CDL (Port-CDL)

MMT Based Test Kit

The Port-CDL Kit provides a low SWaP solution to provide a CDL test environment by direct connect or over the air. Leveraging Cubic's Multiband Miniature Transceiver (MMT), the kit adds a Multi-Band Omni antenna, GPS receiver, and Ku-band Diplexer for short range line of sight tests. The sealed package design ensures the kit is protected in almost any environment.

Ground testing and air testing up to 3 miles can be performed to check out CDL operation to Aircraft, Shipboard and Ground Terminal nodes. Both PCE and SCE configurations are supported by appropriately connecting the RF connectors.

The kit is powered by an internal Li-Ion battery pack that power the MMT and thermal management system. An Optional Type 1 COMSEC Module can be added while the Bypass Plug is placed into a storage location. The antennas store internally for ease of mobility.

Cubic's Traffic Client graphical user interface is provided to control the many aspects of the MMT.

Portable CDL (Port-CDL)

Specifications

Physical Specifications	
Size	5.4" H x 3.5" W x 1.2" D
Weight	13 lbs
Power	30-40mW
Battery Life	7.5 Ah

Environmental Specifications	
Vibration and Shock	MIL-STD-810
Operating Temperature	-20°C to +60°C
Operating Altitude	Up to 20,000 Feet
Weather Resistant	Servicable in Blown Rain Not Submersible

Data Interfaces	
Ethernet	IPv4; IPv6 available Unicast or multicast Router Optional
Control interfaces	STANAG 4586, Web GUI, Common Control Interface (SNMP)
RS-422 digital serial control	
Analog audio in/out	
GPS	For Computer

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
I/O	TX SMA All Bands RX SMA All Bands COMM SMA Ku Band only
Antenna	6 Band TC DL, Omni Directional

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

Encryption	
Removable Type-1 module	
Advanced Encryption Standard	



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



RF and Data Interfaces (Right Side of Case)



RF & GPS antennas and Bypass Plug mount internally for transport.

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