

MINI-T2 TRANSCEIVER

Low SWaP, high data-rate modem meeting critical data link requirements for ground, air or shipboard configurations

The L3Harris Mini-T2 Transceiver is a small, network-ready, fully capable Common Data Link (CDL) terminal enhanced for wideband mobile networking. It can be configured as either a surface or airborne terminal on-the-fly and can be matched with a variety of antenna and power amplifier options to meet virtually any application that calls for wideband data throughput. In addition to its predecessor (Mini TCDL), the Mini-T2 provides dual Gig Ethernet interfaces, HD video, X/Ku-band LOS, high high data-rate Standard-CDL (Std-CDL) and BE-CDL up to 274 Mbps and many other capabilities.

PRODUCT DESCRIPTION

L3's Mini-T2 Transceiver provides low-cost, lightweight, wideband data link capability adaptable to a wide variety of applications. It delivers real-time, full-motion video for situational awareness, targeting, battle damage assessment, surveillance, convoy operations and other situations where eyes-on-target are required. With standard network interfaces and a built-in wideband router, the Mini-T2 is fully net-ready and is a powerful gateway into the net-centric battlespace. Our Mini-T2 Transceiver provides enhanced air and ground coordination, which shortens talk-on-target for time-critical operations. It has proven interoperability with fielded CDL and TCDL data links along with popular ROVER® products. The Mini-T2 Transceiver is small, lightweight and rugged.



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Mission Ready—Small,
Interoperable, Wideband

KEY FEATURES

- > Dual-band, full-duplex LOS capability
- > Symmetric and asymmetric data rates up to 274 Mbps with ranges up to 150 nautical miles (nm)
- > Mission-selectable RFE and antenna; flexibility to meet system requirements
- > Supports both omni and directional antenna systems
- > Integrated COMSEC
- > Easy access for multiple platforms
- > Control GUI, including router configuration, pre-mission configuration and video display
- > MPEG-2, H.264, 1080p HD video

APPLICATIONS

- > Manned ISR Aircraft
- > Mobile Systems
- > Ground-Based Tactical Operations Center

SPECIFICATIONS

LOS PERFORMANCE CHARACTERISTICS

Transmit and Receive Bands

- > X-Band: 9.75 to 10.44 GHz
- > Ku-Band: 14.40 to 15.35 GHz

Data Rates

- > Std-CDL: 200 kbps – 274 Mbps
- > Tactical: 1.6 Mbps to 6.4 Mbps
- > VNW: 50 kbps to 5 Mbps
- > BE-CDL: 1 Mbps to 50 Mbps, 137 Mbps, 274 Mbps

Encryption Options

- > AES
- > Type 1
- > External

Networking

- > Layer 2, 3 switching/routing
- > Supports OSPF, RIP and others
- > Supports multi-cast
- > 802.1Q VLANs
- > NAT available at 45 Mbps and below
- > DHCP server/client

External or User Interfaces

- > User I/O:
 - Ethernet (qty 2; Gig Ethernet)
 - RS-232 (qty 2; console, GPS)
 - RS-422
 - Audio (full-duplex CDL voice)
 - USB 2.0
- > Sensor Interface Options:
 - RS-170 (NTSC and PAL), HD-SDI
 - MPEG-2, MPEG-4, H.264, HD1080p encode and decode

- > Antenna, RFE I/O
 - Ethernet (qty 1; 10/100)
 - RS-232
 - RS-485 (antenna control)
 - Omni or directional antenna
- > Other
 - RF in (X and Ku)
 - RF out (X and Ku)
 - 10^{-8} bit error rate (at range limit)

PHYSICAL CHARACTERISTICS

SWaP

- > Size: 5.6" (w) x 2.4" (h) x 9.5" (l)
- > Weight: 5.5 lb.
- > Power: 85 watts at +28 VDC

Environmental

- > Temperature:
 - Operating: -40 °C to +60 °C (46 CFM)
 - Non-Operating: -40 °C to +85 °C
- > Altitude: -500 ft. to 70,000 ft.
- > Humidity: 0% to 100%, condensing
- > Shock: 20 G, 11 msec (terminal sawtooth peak)
- > Vibration: MIL-STD-810F, method 514.5
- > EMI: MIL-STD-461E compliant
- > Salt Fog: MIL-STD-810F
- > Fungus: MIL-STD-810F

Mini-T2 Transceiver

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