

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.



The appearance of U.S. Department of War visual information does not imply or constitute DOW endorsement.

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

© 2025 L3Harris Technologies, Inc. | 10/2025 | BCS | 17-DSD-089 | Rev-203

NON-EXPORT CONTROLLED: THIS DOCUMENT CONSISTS OF INFORMATION THAT IS NOT DEFINED AS CONTROLLED TECHNICAL DATA UNDER ITAR PART 120.33 OR TECHNOLOGY UNDER EAR PART 772.

L3Harris Technologies is the Trusted Disruptor in the defense industry. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit [L3Harris.com](https://www.l3harris.com) for more information.



1025 W. NASA Boulevard
Melbourne, FL 32919

[L3Harris.com](https://www.l3harris.com)