

MINI-T 2i (INTERNATIONAL) TRANSCEIVER

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

The Mini-T 2i Transceiver is a small, network-ready, fully capable Common Data Link (CDL) terminal enhanced for wideband mobile networking. Configurable as either a surface or airborne terminal on-the-fly, the transceiver can be matched with a variety of antenna and power amplifiers for applications requiring wideband data throughput. The Mini-T 2i includes capabilities from its predecessor Mini-Ti, dual Gigabit Ethernet interfaces, HD video, X/Ku-band LOS and High Data Rate CDL up to 274 Mbps.

PRODUCT DESCRIPTION

The L3Harris Mini-T 2i Transceiver provides low-cost, lightweight, wideband data link capabilities and is 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-T 2i is fully net-ready and is a powerful gateway into the net-centric battlespace. The Mini-T 2i transceiver provides enhanced air and ground coordination to shorten talk-on-target for time-critical operations. and delivers proven interoperability with fielded CDL and TCDL data links along with popular ROVER[®] products. Mini-T 2i 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
- > Mission selectable RFE and antenna; flexibility to meet system requirements
- > Supports both omnidirectional and directional antenna systems
- > 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 (TOC)

SPECIFICATIONS

LOS PERFORMANCE CHARACTERISTICS

Transmit and Receive Bands

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

Data Rates

- > CDL/STANAG 7085: 200 kbps to 274 Mbps
- > Other Non-CDL data rates available
- > BE-CDL Rev B: Up to 274 Mbps

Encryption Options

- > AES

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, H.264, HD 1080p encode and decode

- > Antenna, RFE I/O:
 - Ethernet (Qty 1; 10/100)
 - RS-232 (GPS)
 - 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: 14.2 cm (w) x 6.1 cm (h) x 24.1 cm (l)
5.6" (w) x 2.4" (h) x 9.5" (l)
- > Weight: 2.5 kg (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: -154 m to 21,336 m (-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
- > Salt Fog: MIL-STD-810F
- > Fungus: MIL-STD-810F

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