![L3HARRIS® FAST. FORWARD.]

MINI-T 2x TRANSCEIVER

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

The L3Harris Mini-T 2x Transceiver is a small, network-ready, fully capable high-rate data link terminal enhanced for wideband mobile networking. Our Mini-T 2x provides waveforms and capabilities specifically designed for use in commercial and military applications worldwide. 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 the capabilities of its predecessor, the Mini-Ti(x), the Mini-T 2x adds dual Gigabit Ethernet interfaces, HD video, X/Ku-Band LOS, high data rates up to 135 Mbps and many other capabilities.

PRODUCT DESCRIPTION

The L3Harris Mini-T 2x 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-T 2x is fully network-ready and is a powerful gateway into the net-centric battlespace. The Mini-T 2x Transceiver provides enhanced air and ground coordination, which shortens targeting time for critical operations. The small, lightweight and rugged Mini-T 2x Transceiver delivers proven international interoperability.

Mission Ready—Small, Interoperable, Wideband

KEY FEATURES

> Dual-band, full-duplex LOS capability

> Symmetric and asymmetric data rates up to 135 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)

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SPECIFICATIONS

PERFORMANCE CHARACTERISTICS

Transmit and Receive Bands

> X-Band:
>   - 9.75 GHz to 9.95 GHz
>   - 10.14 GHz to 10.44 GHz
> Ku-Band:
>   - 14.40 GHz to 14.83 GHz
>   - 15.15 GHz to 15.35 GHz
> Data Rates

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; 10/100/1000)
>   - 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 (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

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: 2.7 kg (5.5 lb.)
> Power: 28 VDC, 102 W max

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-461G
> Salt Fog: MIL-STD-810F

*AES may be export controlled

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