L3HARRIS™
FAST. FORWARD.

EMBEDDED NATIONAL TACTICAL RECEIVER (ENTR) V4

Portable, reliable receiver delivering critical situational awareness

ENTR V4 is the latest solution in L3Harris' long line of ultra high frequency Integrated Broadcast Service (IBS) receivers. The solution features low size, weight and power (SWaP) in a form factor that is well-suited to any platform.

ACTIONABLE INTELLIGENCE FOR THE MOBILE WARFIGHTER

ENTR V4 is a lightweight, low-cost and reliable receiver that provides near real-time situational awareness from the IBS. Weighing less than 3 pounds, the compact receiver is easy to transport, simple to use and maintain and fits conveniently into a backpack pocket.

ENTR V4 receives IBS UHF satcom signals via direct-to-digital radio frequency (RF) processing. The small form factor can simultaneously receive and process up to four IBS alternative-path channels and the Common Interactive Broadcast (CIB) without the need for multiple costly, sensitive RF components. The channel scheme can be reconfigured dynamically without interfering with operations.

OFFERING CONVENIENCE AND FLEXIBILITY

ENTR V4 has been rigorously tested to reliably support land, air and sea operations. The device is designed to interface with any host platform that has an Ethernet port, including mobile servers, laptops and tablets. The receiver can be powered by a flexible 6 to 34 volt direct current (VDC) input, which allows users to leverage a variety of power sources, from a battery pack to aircraft power. With embedded processing, the ENTR V4 only needs to plug into a display so that warfighters can view the IBS data.

The ENTR V4 natively hosts the tactical receive segment (TRS) software which will feed any tactical data processor that TRS supports. The interface software is compatible with all mainstream message processing and control software. Alternatively, the ENTR V4 can connect to an external TRS (hosted on any Windows™ 10 PC) via Ethernet.

AUTOMATIC UPDATES FOR UNINTERRUPTED USE

The software-programmable ENTR V4 will facilitate changes or improvements by easily upgrading the firmware or software. Upgrades and new releases can be made automatically for continuous use and offers lower maintenance costs throughout the life of the ENTR V4.

The ENTR Tx is NSA Type 1 and TEMPEST certified and contains reprogrammable anti-tamper. Crypto key loading is provided by the ENTR V4's automated key loading and handling capability.

BENEFITS

> Offers a low-cost, compact and lightweight solution that is simple to transport, use and maintain while adding increased reliability

> Delivers near real-time intelligence, battlefield and situational awareness

> Provides threat assessment data

> Supports footed and non-footed version depending on user requirements

ELECTRICAL

Functional

Receive only, UHF only	243 to 270 MHz
Dynamic range	65 dB
Noise figure	Less than 5.5 dB

Power requirements

DC input	6 to 34 VDC, 12 Watts
Overvoltage protection	> 50 V
Reverse polarity protection	30 V

ENVIRONMENTAL

Operating temperature	-40 °C to +71 °C, no external cooling required	
Storage temperature	-54 °C to +95 °C	
Vibration	MIL-STD-810G, Categories 12 and 14	Fixed- and rotary-wing vibration

Shock (non-operating)

MIL-STD-810F crash hazard shock	40 g, 5 millisecond, ½ sine shocks (all three axes)
MIL-STD-810F arrested landing and catapult launch shock	200 two-second sinusoidal bursts, 10 Hz, 12 g
Acceleration (operating)	20g for 1 minute in each axis
Altitude	Up to 60,000 ft
EMI	MIL-STD-461F

MECHANICAL

Size	8.8" L x 3.6" W x 2.1"
Weight	2.95 lb. (non-footed) / 3.1 lb. (footed)

FEATURES

> Digitized channel reception, dynamically configurable between CIB and IBS-Simplex

> Supports embedded or external TRS processing

> Field upgradable software and firmware

> Ethernet interface

> Embedded firmware and software upgradable via electronic media

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1025 W. NASA Boulevard
Melbourne, FL 32919