ENTR V4

EMBEDDED NATIONAL TACTICAL RECEIVER

L3's ENTR V4 is the latest in our long line of UHF Integrated Broadcast Service (IBS) receivers. It features low Size, Weight and Power (SWaP) in a form factor that is well-suited to any platform.

L3 Telemetry & RF Products' (L3 T&RF) ENTR V4 receives Integrated Broadcast Service (IBS) UHF SATCOM signals via Direct-to-Digital RF processing. Therefore, ENTR V4 supports up to six IBS channels without the need for costly, sensitive, RF components. The channel scheme can be reconfigured dynamically without interfering with operations. ENTR V4 is designed to interface to any host platform that has an Ethernet port. With in-radio processing, the ENTR V4 only needs to plug into a display so that warfighters can view the IBS data.

With its small form factor and Ethernet connection, ENTR V4 is ideal to connect with mobile servers, laptops, tablets and various other platforms that use Ethernet. It can be powered by a flexible 5 to 34 VDC input, which allows users to utilize a variety of power sources, from a battery pack to aircraft power.

The ENTR V4 natively hosts the TRS software. Communicating via Ethernet, the ENTR V4's TRS output can feed any TDP that TRS supports. The interface software is compatible with all the mainstream message processing and control software. Alternatively, the ENTR V4 can connect to an external TRS (hosted on any Windows™ 7 PC), again via Ethernet.

L3's ENTR V4 is software-programmable allowing changes or improvements to be made by upgrading the firmware or software. These upgrades and new releases can be distributed via electronic media, which fosters a more robust solution for today, and lower maintenance costs throughout the life of the ENTR V4.

The ENTR V4 contains reprogrammable, NSA certified, Type 1 crypto and is TEMPEST certified. Crypto key loading is easier than ever with the ENTR V4's Automated Key Loading and Handling capability. Just plug in any standard fill device to the standard DS-101 port and the ENTR V4 handles the rest.

The ENTR V4 can be powered by a wide range of DC inputs—from 5 to 34 VDC. This makes it ideal for 28 VDC aircraft power or for low-voltage applications powered by an external battery. Dual DC inputs simplify battery-powered operations for the dismounted warrior. When it's time to change a battery pack, plug into the second DC input, and then remove the first—all without interrupting operations of the ENTR V4.

ENTR V4

EMBEDDED NATIONAL TACTICAL RECEIVER

SPECIFICATIONS

FUNCTIONAL

Receive Only, UHF Only	243 to 270 MHz
Dynamic Range	65 dB
Noise Figure	5.5 dB

POWER REQUIREMENTS

DC Input	5 to 35 VDC, 12 Watts
Overvoltage Protection	> 60 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)	40g half-sine, 5 msec in each axis
Acceleration (operating)	20g for 1 minute in each axis
Altitude	up to 60,000 ft.
EMI	MIL-STD-461F

MECHANICAL

Volume	7.1 cu. in. nominal
Size	8.4” L x 3.6” W x 2.1” D
Weight	2.4 lb.

FEATURES

- Receipt of near real-time intelligence
- Battlefield and situational awareness
- Threat assessment data
- Targeting and retargeting information
- Digitized channel reception, dynamically configurable between CIB & IBS-Simplex
- Software-controlled
- Embedded decryption
- Ethernet interface
- Easily installed by user
- Embedded firmware/software upgradable via electronic media
- Crypto-programmable

L3 Telemetry & RF Products

9020 Balboa Avenue
San Diego, CA 92123
Tel: 858.694.7500
800.351.8483

1515 Grundy’s Lane
Bristol, PA 19007
Tel: 267.545.7000

Email: Sales.TRF@L3T.com
L3T.com/TRF

ML645 Rev A