

# Airborne ENTR Embedded National Tactical Receiver



L-3 Telemetry-West's (L-3 TW) Airborne ENTR system is a 13-pound integrated IBS receiver used to bring near real-time intel data to pilots and crew.

The two-box system incorporates a fully certified USB ENTR and special mount to process not only legacy broadcasts but the future Common Interactive Broadcast (CIB). Bringing IBS data to the crew in near real time during long duration missions, this solution will fill the gap between information on legacy situational awareness systems and the intelligence briefings. The Airborne ENTR system provides the functionality of legacy receivers at a dramatic reduction in size, weight and cost.



Although this system is specifically designed for use on aircraft platforms, it has the capability to be used on a wide variety of environmentally demanding platforms that require processed intel data. These include: command posts, naval surface vessels and terrestrial vehicles. The system's backward compatibility to legacy terminals and small, lightweight form factor will greatly reduce required integration time.

## **FEATURES**

- Receipt of near real-time intelligence
- Battlefield and situational awareness
- Threat assessment data
- Targeting and retargeting information
- 4-channel reception
  - Dynamic channel reconfiguration
  - Any combination of data channels (IBS-S, TADIXS-B, one channel IBS-I)
- MATT-compatible
- Embedded decryption
- MIL-STD-1553, RS-422, RS-232, and Ethernet interface
- Embedded data filtering
- Data conversion to standard formats
- Fully reprogrammable, including crypto
- NSA certified
- CIB ready (SW/FW upgrade only)
- Remote declassification



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## Specifications

### Receivers

|                                                                                                |                |
|------------------------------------------------------------------------------------------------|----------------|
| 4-channel IBS receiver capable of receiving IBS-I (TIBS), IBS-S (TDDS) and TADIXS-B broadcasts |                |
| Fully reprogrammable crypto                                                                    |                |
| 8.9 x 6.5 x 5.3 inches                                                                         |                |
| 13 lbs (USB ENTR and Smart Mount)                                                              |                |
| MIL-STD-704 28 VDC or 115 VAC, 400 Hz                                                          |                |
| Provision for a 3.3 VDC pass-through to the USB ENTR Key hold up                               |                |
| Windows XP OS processor capable of running TRS in MATT compatibility mode                      |                |
| Removable flash drive provides means to declassify unit                                        |                |
| Non-operating                                                                                  | -55°C to +90°C |

### Interfaces

|                                                                                               |  |
|-----------------------------------------------------------------------------------------------|--|
| Dual-redundant MIL-STD-1553                                                                   |  |
| Ethernet (IEEE 802.3 capable)                                                                 |  |
| 2 serial interfaces (RS-232 and RS-422)                                                       |  |
| Either MATT-compatible interface (PtP, KBP, 1553) or TRS (Tactical Receive Segment) Interface |  |
| Compatible with wide range of existing TDPs (Falconview, TRS, Gale, TNT, etc.)                |  |
| Remote declassification                                                                       |  |
| Provides 3.3 VDC input for Key hold up                                                        |  |
| Weight less than or equal to 13 lbs                                                           |  |

### Environmental Qualification

|                                                       |  |
|-------------------------------------------------------|--|
| Operational temperature -40 to +55 degrees C          |  |
| Storage temperature -54 to +95 degrees C              |  |
| Altitude 60,000 ft                                    |  |
| Explosive atmosphere MIL-STD-810F, method 511.4       |  |
| Vibration MIL-STD-810F category 12 and 14             |  |
| Shock 40 G's 5 milliseconds                           |  |
| Sand and dust operation and non-operation             |  |
| Salt spray MIL-E-5400                                 |  |
| Fungus operational and non-operational                |  |
| Humidity and rain less than 95% non-condensing        |  |
| Dripping water MIL-STD-210 and MIL-STD108, 10 minutes |  |
| Fluid contamination MIL-STD-810F Method 504           |  |
| EMC MIL-STD-461F                                      |  |
| -CE 102/106                                           |  |
| -CS 101/103/104/105/114/115/116                       |  |
| -RE 102/103                                           |  |
| -RS103                                                |  |

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