The Leonardo DRS Integrated Broadcast Receiver - Miniaturized (IBR-Mini) provides the most comprehensive near real time situational awareness and intelligence picture worldwide. It is a stand-alone interoperable beyond line-of-sight (BLOS) emissions controlled (EMCON) broadcast receiver for millions of threat, survivor, and Blue Force Tracking (BFT) reports daily without the need for data forwarders.

The IBR-Mini is the miniaturized next generation Air Force Tactical Receive System-Ruggedized (AFTRS-R), yielding a two-thirds size and weight reduction while maintaining all functionality.

It provides red side processing for filtering, correlation, and translation; therefore, freeing up platform processors for other mission functions. It is a four-channel, software defined terminal that delivers IBS via the Common Interactive Broadcast (CIB) waveform and is reprogrammable for future waveforms. The IBR-Mini is the world’s only IBS receiver designed with a modular bolt-on transmit upgrade option to the JTT-Mini. The IBR-Mini can provide simultaneous CIB receive and UHF SATCOM secure voice, text, and data transmit via the Integrated Waveform (IW) or the Mobile User Objective System (MUOS) waveform.
IBR- MINI

HIGHLIGHTS

- Provides critical Beyond Line Of Sight (BLOS) situational awareness information (threat, survivor, and Blue Force Tracker) near real-time
- Ruggedized for Air, Ground and Maritime operations
- Standalone terminal with red side processing to maximize platform resources for mission functions
- Maintains all the functionality of the Air Force Tactical Receive Segment-Ruggedized (AFTRS-R) in a 2/3 size and weight ruggedized form factor
- World’s only IBS receiver designed with a modular bolt-on transmit upgrade kit
- Provides simultaneous CIB and secure voice, data, and text via Integrated Waveform (IW) or Mobile User Objective System (MUOS) communications
- Four (4) channel software defined radio
- Field-upgradeable firmware/software
- Supports up to ten users simultaneously
- Dynamic channel reconfiguration
- Reprogrammable for additional and future waveforms
- 28 VDC on board power supply
- Capability to hold cryptographic keys for more than one year after external power is removed
- Supports Dashboard, and Joint Control Client (JCC)
- JITC and NSA Type-1 certification
- SCA compliant

GENERAL FEATURES

- Key fill via front panel or remote fill panel interface
- Broadcast reception simultaneous receive on up to four (4) channels
- Internal data correlation, via PICES
- Supports Tactical Receive Segment (TRS) or Joint Tactical Terminal (JTT) software

PHYSICAL FEATURES

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>MEASUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>11.20 L x 6.00 W x 3.00 H inches</td>
</tr>
<tr>
<td>Weight</td>
<td>8.5 lbs. (&lt;4.53 kg)</td>
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</table>

ELECTRICAL FEATURES

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>MEASUREMENT</th>
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</thead>
<tbody>
<tr>
<td>Interfaces</td>
<td>Two (2) redundant MIL-STD-1553B USB</td>
</tr>
<tr>
<td></td>
<td>Two (2) RS-422/RS-232 Ethernet</td>
</tr>
<tr>
<td>Input Power</td>
<td>18 VDC to 32 VDS (28 VDC nominal)</td>
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</tbody>
</table>

ENVIRONMENTAL FEATURES

<table>
<thead>
<tr>
<th>CHARACTERISTIC</th>
<th>MEASUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-40° F to 158° F (-40° C to +71° C) (operating)</td>
</tr>
<tr>
<td>Altitude</td>
<td>70,000 ft. Mean Sea Level (operating)</td>
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</tbody>
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Airborne & Intelligence Systems

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