Leonardo DRS’ next generation tactical terminal, the Joint Tactical Terminal - Next Generation (JTT-NG), is the smallest and most capable Integrated Broadcast Service (IBS) transceiver solution available. The JTT-NG provides the most comprehensive near real-time (NRT) battlespace awareness capability to the warfighter by communicating millions of threat, survivor, and Blue Force Tracking (BFT) reports daily, and is the world’s first and only modular IBS receive and transmit terminal available. Based on the Intelligence Broadcast Receiver - Miniaturized (IBR-Mini), the JTT-NG is a stand-alone, interoperable, beyond line-of-sight (BLOS), miniaturized Common Interactive Broadcast (CIB) transceiver for all JTT, IBS applications with a 66% reduction in size, weight and power (SWAP) to meet warfighter requirements.

The JTT-NG provides red-side processing power for on-board filtering, correlation, and message translation thus freeing up host system processors for other essential air, land or sea mission functions. It is a multi-channel, software defined terminal that delivers IBS data via the CIB waveform and has expansion capability built in to support future waveforms along with UHF SATCOM secure voice, text and data using either the CIB, Integrated Waveform (IW) or the Mobile User Objective System (MUOS) waveform.

**CAPABILITIES**

- IBS Receive and Transmit in < 20 lb. system
- Modular family of systems for IBS receive (IBR-Mini) and IBS transmit (JTT-NG) users
- Ruggedized terminal for all land, sea and air operations
- Software defined radio with built-in capacity to support additional waveforms (MUOS, IW, SATURN, Link 16/22)
- On-board processing power for data filtering & correlation
- Supports both the TRS and JCCS software suites
- Receive, process and transmit more than 800,000 messages per day
- Supports optional Quad Diversity Module for naval operations
- Embedded Crypto, single button key fill & 7 year key hold
- Operates on 18V - 32V DC (28V DC nominal) platform power and 110V - 132V AC and 200V - 264V AC
- Field upgradeable software and firmware
Leonardo DRS tactical terminals are deployed on platforms across all US military branches and FVEY partner nations to facilitate increased communications and situational awareness. IBS data can also be forwarded to Tactical Data Links (Link 16/22) for IBS disadvantaged platforms.

Leonardo DRS’ AFTRS-R, JTT-R and IBR-Mini tactical terminals are deployed on platforms requiring IBS receive-only capabilities, while the JTT-IBS and JTT-NG are on platforms requiring both receive and transmit capabilities.
THE LEADER IN IBS FOR OVER 20 YEARS

DRS created ruggedized Tactical Receive Segment terminal for airborne platforms.

- '96

DRS awarded contract for airborne IBS receive only terminals (AFTRS-R) and delivered 101 systems.

- '03

DRS integrated modern crypto and additional functionality to AFTRS-R and delivers 299 Block II units.

- '05

DRS awarded joint service IBS receive/transmit contract and 296+ systems fielded.

- '08

DRS' software defined radio integrated into JTT-IBS to improve reliability and reduce procurement costs.

- '09

Development and integration of first CIB terminal for fighter aircraft.

- '10

IBR-Mini receives NSA certification completing 2 year IRAD effort.

- '12

DRS delivered 14 JTT-IBS units with CIB waveform to Air Force for CIB Uplink Sites.

- '13

DRS awarded contract for 350 AFTRS-R 4-channel software defined radios.

- '14

DRS awarded contract for 205 JTT-R CIB software defined terminals for EA-18G fleet.

- '15

DRS completes JTT-NG development.

- '16

Passed JTC testing and IBR-Mini completed NSA certification.

- '17

IBR-Mini refreshed with latest processor and software baseline.

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TAKING INTEGRATED BROADCAST SERVICE TO THE NEXT LEVEL

SYSTEM HIGHLIGHTS

• Receives and transmits critical Beyond Line of Site (BLOS) situational awareness information (threat, survivor, and Blue Force Tracker) near real-time
• Ruggedized for air, ground (mounted/dismounted) and maritime operations
• Standalone terminal with red side processing to maximize platform resources for mission functions
• World’s only modular, ruggedized IBS receive & transmit system - upgradeable from IBS receive to IBS Transmit via a common hardware upgrade kit
• Four-channel software defined radio (4 channel receive / 2 channel transmit)
• Field-upgradeable firmware/software
• Supports simultaneous CIB, IBS-A communications
• Supports up to 20 users simultaneously (10 control and 10 data)
• Dynamic channel reconfiguration
• Hardware supports additional and future waveforms (MUOS, IW, SATURN & Link 16/22)
• AEK key hold for more than 7 years after external power is removed
• Integrated spectrum analyzer
• Supports Joint Control Client (JCC), JCSC, Tipoff-NT, Falcon View
• Supports TRS / Dashboard for receive only operations
• JITC and NSA Type-1 certification
• SCA compliant

ADDITIONAL FEATURES

• Key fill via front panel or remote fill panel interface
• Broadcast reception on up to four channels
• Internal data correlation, via PICES
• Supports Quad Diversity antenna inputs

SPECIFICATIONS

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broadcast reception</td>
<td>2nd Generation four channel operations</td>
</tr>
<tr>
<td>Broadcast transmission</td>
<td>Two channel transmit</td>
</tr>
<tr>
<td>Waveforms</td>
<td>CIB and IBS-A</td>
</tr>
<tr>
<td>Key holdup</td>
<td>AEK - 7 years, TEK/KEK - 1 year</td>
</tr>
<tr>
<td>Key fill</td>
<td>Front panel or remote fill panel interface</td>
</tr>
<tr>
<td>Data correlation</td>
<td>Internal, via PICES</td>
</tr>
<tr>
<td>Growth</td>
<td>4-channel software defined - reprogrammable for additional waveforms</td>
</tr>
<tr>
<td>Size, weight &amp; power savings</td>
<td>78% reduced weight, 60% reduced dimensions, 33% reduced power (&lt;350 watts)</td>
</tr>
</tbody>
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PHYSICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>DIMENSIONS</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>JTT-NG: 12”L x 7.5”W x 6”H</td>
<td>20 lbs. (&lt;9.1 kg)</td>
</tr>
<tr>
<td>IBR-Mini: 12”L x 3”W x 6”H</td>
<td></td>
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ELECTRICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Interfaces</th>
<th></th>
</tr>
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<tbody>
<tr>
<td>Two Independent Ethernet ports (10/100/1000BaseT)</td>
<td></td>
</tr>
<tr>
<td>One redundant MIL-STD-1553B</td>
<td></td>
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<tr>
<td>Two RS-422/RS-232</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Power</th>
<th></th>
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<tbody>
<tr>
<td>18 VDC to 32 VDC (28 VDC nominal)</td>
<td></td>
</tr>
<tr>
<td>100 - 132 and 200 - 264 VAC</td>
<td></td>
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</tbody>
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ENVIRONMENTAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>OPERATING TEMPERATURE</th>
<th>OPERATING ALTITUDE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>-40°F to 158°F (-40°C to +71°C)</td>
<td>70,000 ft. mean sea level</td>
<td></td>
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</tbody>
</table>

Leonardo DRS’ Next Generation Tactical Terminal brings increased capability with reduced size, weight, power and cost (SWAP-C) to meet warfighter requirements for land, sea, air and man-portable operations.