JTT-NG

Joint Tactical Terminal
Next Generation

LEONARDO DRS

JOINT TACTICAL TERMINAL - NEXT GENERATION

Chosen by the U.S. Army to replace aging Joint Tactical Terminals to ensure military services to keep pace with evolving technical advancements.

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, and it is certified by the Joint Interoperability Testing Center (JITC). 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. The JTT-NG provides red-side processing power for onboard filtering, correlation and message translation thus freeing up host stem processors for other essential air, land or sea mission functions. It is a multi-channel softare 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 CIB, Integrated WAveform (IW) or th eMobile User Objective System (MUOS) waveform.

Leonardo DRS has been an industry leader in IBS technology for over 20 years. Beginning in 1996, the Company supplied tactical terminals to Army, Navy, Air Force and Special Operations users supporting airborne, maritime and ground maneuver operations. The Joint Force currently fields 722 Joint Tactical Terminals produced by Leonardo DRS.

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.

CAPABILITIES

- IBS Receive and Transmit in < 20 lb. system

- Modular family of systems support both IBS receive (BXU only) and IBS transmit (BXU and EPA)

- Ruggedized terminal for all land, sea and air operations

- Software defined radio supporting all curent IBS waveforms (CIB and IBS-A) and future IBS waveforms (IBS-MUOS, IBS A+, IBS-LEO)

- Built-in capacity to add waveforms MUOS (voice and data), IW and UHF TACSATCOM in the future.

- Supports the JCSC software suite

- 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 optional power supply

- Field upgradeable software and firmware

- On-board processing power for data filtering & correlation

Currently manufactured Leonardo DRS JTT systems are flown in almost all USAF aircraft (SOF, Bomber, Tanker, Rescue) in the inventory and the EA-18G Growler electronic attack aircraft. The US Army currently fields JTT terminals in Integrated Air Missile Defense shelters and the Counter-Rocket Artillery Mortar defense systems.

JTT-NG FEATURES

PARAMETER	DESCRIPTION
Broadcast Reception	2nd Generation four channel operations
Broadcast Transmission	Two channel transmit
Waveforms	Current (CIB and IBS-A), Future (IBS-MUOS, IBS A+, IBS LEO)
Key holdup	AEK - 7 year battery hold-up, TEK/KEK -hold up battery is field replaceable
Key fill	Front panel or remote fill panel interface
Growth	4-channel software defined - reprogrammable for additional waveforms

PHYSICAL SPECIFICATIONS

Dimensions	12"L x 7.5" W x 6" H
Weight	20 lbs (<9.1 kg)

ELECTRICAL SPECIFICATIONS

Interfaces	Two Independent Ethernet Ports One Redundant MIL-STD-1553B
Input Power	18 - 32 VDC (28 VDC nominal) 100-132 and 200-264 VAC

ENVIRONMENTAL SPECIFICATIONS

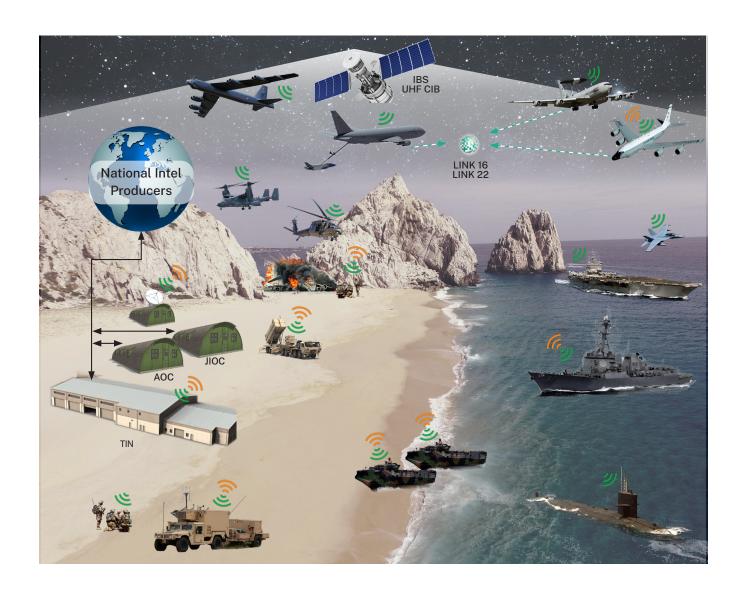| Temperature	-40°F to 158°F (-40°C to +71°C)
Altitude	Up to 70,000 ft. mean sea level

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 ie. MUOS, IW & Link 22
- AEK key hold for more than 7 years after external power is removed
- Integrated spectrum analyzer
- Supports Joint Control Client (JCC), JCSC, and Tipoff- NT
- JITC and NSA Type-1 certification

ADDITIONAL FEATURES

- Key fill via front panel or remote fill panel interface
- Broadcast reception on up to four channels
- Supports quad diversity

INTEGRATED BROADCAST SERVICE PROVIDES CRITICAL SITUATIONAL AWARENESS FOR THE WARFIGHTER

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.

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JTT-NG Brochure