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BATTLEFIELD AWARENESS AND TARGETING SYSTEM-DISMOUNTED

AN/PRC-161 Handheld Link 16 Radio

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The L3Harris Battlefield Awareness and Targeting System-Dismounted (BATS-D) AN/PRC-161 radio fuses air and ground (friendly and enemy) Situational Awareness (SA) in the palm of your hand. This ruggedized, handheld radio delivers real-time Link 16 communications to dismounted warfighters at the tactical edge. The radio can be used vest-worn, handheld or mounted and is ideal for bringing full Link 16 network access to ground forces including Joint Terminal Attack Controllers (JTACs), Forward Air Controllers (FACs) and Tactical Air Control Party (TACP) specialists.

PRODUCT DESCRIPTION

This handheld radio arms dismounted JTACs and FACs with a direct connection into the Link 16 network to digitally call for fire and provide all nodes with accurate SA in a joint integrated air/ground common operational picture. This direct link between ground warfighters and Close Air Support (CAS) aircraft dramatically shortens the kill chain and decreases the risk of fratricide.

The BATS-D's Enhanced Throughput (ET) mode boosts Link 16's protected data rate of 115 Kbps to over 1.1 Mbps. L3Harris is also the first Link 16 provider to integrate Concurrent Multinet (CMN) and Concurrent Contention Receive (CCR) advancements across its portfolio of non-developmental items, providing warfighters with Concurrent Multiple Reception (CMR) capabilities for assured access to mission-critical information. These features, coupled with Link 16 Enhanced Throughput (ET) modes, will enable network planners to fully optimize network performance, allowing maximum participants sharing maximum capacity of information to support evolving mission requirements. The BATS-D also implements the latest high assurance algorithms using a field proven programmable Cryptographic Modernization compliant engine to securely serve joint and coalition mission requirements, while maintaining backwards compatibility with legacy communications systems.

CONFIGURABLE FOR A VARIETY OF OPERATIONS:

- **Autonomous Link 16 Untethered Mode**
  Enter the network without user interaction and transmit Precise Participant Location and Identification (PPLI) to the network including emergency indication if needed
- **Fully Tethered Mode**
  Nett Warrior, USB, or Ethernet cabled to a tablet device or laptop computer to exchange/display situational awareness data (PPLI) and Platform J host data with the Link 16 network

30 Seconds From Initial Contact To Weapon Delivery

KEY FEATURES

- Rugged, small and lightweight
- Advanced power management
- Link 16 voice/data
- Link 16 Frequency Remapping (FR)
- Enhanced Throughput (ET)
- Concurrent Multi-Net (CMN)
- Concurrent Contention Receive (CCR)
- Modular design for easy growth
- Interoperable with: JTIDS, MIDS-LVT, MIDS JTRS, STT, Link 16
- Compatible with government-fielded batteries and accessories
- Link 16 CMI compliant
- Suite A (Modern and Legacy) and Suite B algorithms, timeslot-by-timeslot switching

GROWTH CAPABILITIES

- Link 16 precision navigation
- Enhanced anti-jam

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SPECIFICATIONS AND TECHNICAL FEATURES

MISSION FLEXIBILITY

- Fully functional Link 16 radio
- Handheld/small form factor
- Coordinate and maneuver assets instantaneously
- Embedded SAASM GPS
- Standardized quick-change rechargeable battery
- J-Voice and Platform-J data capable
- Built-in keypad/display
- Voice PTT Key and mic/speaker
- Extremely low size, weight, and power
- Jam resistant for operations in contested and denied access environments
- Coalition interoperable
- Rugged design (MIL-STD 810-F)

SITUATIONAL AWARENESS

- Friendly force tracking
- Provides air and ground common operational picture
- Tethered mode can interface with: Android Tactical Radio Extension (ATRAX);
  - Android/ Windows Tactical Assault Kit (ATAK/TAK); Air Defense Systems Integrator (ADSI®); Joint Range Extension (JRE); Gateway Manager; LinkPRO®
  - KILLSWITCH; APASS; DASS; WINTAK

COMMAND AND CONTROL

- J12 mission management to any non-C2

TARGET ATTACK

- Digitally-aided Close Air Support
- Cursor on Target (CoT) capable
- Shortens kill chain—F2T2EA (Find, Fix, Track, Target, Engage, Assess)
- JTAC target POSID/9-line/BDA
- Target update
- Imagery and data
- Mobile target attack

NSA CERTIFIED

- Link 16 CMI Compliant
- Embeds NSA Certified KOV-56 Crypto Engine (L3Harris ES-1850)

PERFORMANCE

- Frequency Range: 969 to 1206 MHz Link 16
- Transmission Modes: Link 16 TDMA, All OP modes and enhanced throughput
- Antenna Ports:
  - Link 16 50 Ω
  - GPS 50 Ω
- Batteries: 12 V Rechargeable Lithium-Ion; 6.8 Ah
- Data Interfaces: Ethernet/USB/Nett Warrior
- Dimensions: 2.6” (w) x 8.4” (h) x 1.7” (h); 6.6 cm (w) x 21.3 cm (h) x 4.3 cm (d)
- Volume: 36 cu in. with battery; 23 cu in. without battery
- Weight: 2.19 lb with battery; 1.28 lb without battery
- GPS: Embedded SAASM

RANGE

- Clear line-of-sight transmission range in excess of 75 nm

TRANSMITTER

- Power Output: 8 W

WAVEFORMS

- L-band: Link 16 data and voice including enhanced throughput modes

ENVIRONMENTAL

- Operating Temperature: -31° to +60° C; -23.8° to +140° F
- Storage Temperature: -33° to +71° C; -27.4° to +159.8° F
- Immersion: 2 m; 20 m option

Battlefield Awareness and Targeting System-Dismounted

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers’ mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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1025 W. NASA Boulevard
Melbourne, FL 32919
t 833 537 6837
CSW.Products@L3Harris.com