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FAST. FORWARD.

BATS-D RADIO MOUNT (BRM)

More Platforms. More Rugged Environments. Longer Range. Greater Ease.

With Next Generation Tactical Data Links (NGTDL) terminals/radios and support equipment, SWaP-C constrained platforms that traditionally lacked access to the Link 16 network can now be active participants and exchange near real-time situational awareness data and secure voice with other Link-16-enabled air, land, and sea platforms.

PRODUCT DESCRIPTION

The BATS-D Radio Mount (BRM)[1] is a ruggedized docking station for the BATS-D AN/PRC-161 radio (version 1 and 2). It is designed with a host of features in a small form factor and low power consumption package that will meet the most stringent Size, Weight, and Power - Cost (SWaP-C) requirements, as well as MIL-STD-810 environmental standards to ensure survivability in operationally harsh environments.

The BRM is a great choice for platform integrations. All BATS-D radio controls are fully accessible, and the display is visible without obstruction. The BATS-D radio can be easily installed or removed from the BRM using one hand, to support dismounted soldiers in "grab & go" situations. The BRM's locking features quickly secures the radio to the mount to protect against unwanted removal.

When secured in the BRM, the BATS-D inputs/outputs are conveniently routed to the BRM's ruggedized connectors for ease of integration with host platforms and that continuously charge the BATS-D radio. The BRM accepts a wide input power range and provides host connections via Ethernet and USB. The BRM also provides an Ethernet interface between the BATS-D radio and a Vehicle Adapter (VA). When paired with L3Harris's BATS Vehicle Adapter (BVA), the BATS-D performance is enhanced by providing dual antenna support and an increased range of 200+ nautical miles. Reference the BVA datasheet for additional features. An optional BRM vibrational isolation tray can be used to provide survivability at increased vibration and shock levels.

Without AN/PRC-161 inserted[1]

With AN/PRC-161 inserted[2]

1. The BRM itself is not a cryptographic product and does not need to be handled as a COMSEC Controlled Item.
2. AN-PRC/161 is not included with the BRM

The appearance of U.S. Department of War visual information does not imply or constitute DOW endorsement.

Further Integrates BATS-D AN/PRC-161 Capabilities

KEY FEATURES

Mission Flexibility

- Securely mounts the handheld BATS-D radio.
- Locking features included to secure BATS-D into the BRM.
- One-hand operation for quick "grab & go" situations.
- Optional BATS Vehicle Adapter (BVA) expands BATS-D capabilities: extended operational range and dual antenna support.

Simplified BATS-D Platform Integration

- Small form-factor with integrated forced air cooling
- DC power conversion
- BATS-D Inputs/Outputs routed to BRM connectors
- Standard Communication Interfaces (Ethernet and USB)
- System Inputs/Outputs: Convenient breakout of the BATS-D radio discrete inputs/ outputs at various signal levels.

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SPECIFICATIONS

PHYSICAL

- Dimensions: W: 4.9" (12.5 cm)
  H: 3.5" (8.9 cm)
  D: 10.6" (26.9 cm)
- Volume: 181.8 cu in. (2992.6 cu cm)
- Weight:
  - Without Radio: 4.0 lbs. (1.81 kg)
  - With Radio: 6.5 lbs. (2.95 kg)
- Cooling: Integral variable rear fan (controlled by radio battery temperature)
- Data Interface:
  - Ethernet
  - USB (Nett Warrior)

ENVIRONMENTAL

Temperature

- Operating -30 °C to +50 °C (-22 °F to 122 °F) per MIL-STD-810H, Method 501.7, Procedure II
- Storage -30 °C to +71 °C (-22 °F to 159.8 °F) per MIL-STD-810H, Method 502.7, Procedure II

Altitude

- Operating 15,000 ft. (4572 m) per MIL-STD-810G, Method 500.5, Procedure I
- Storage 15,000 ft. (4572 m) per MIL-STD-810G, Method 500.5, Procedure II

Humidity

- ≤ 95% non-condensing per MIL-STD-810G, Method 507.5, Procedure II – Aggravated

Vibration

- MIL-STD-810H Method 514.8 Procedure I, Category 24 (when used with optional Vibration Isolation Tray)

Shock

- 40 G, 11 msec all axes per MIL-STD-810H, Method 516.8, Procedure I (when used with optional Vibration Isolation Tray)

Rain

- MIL-STD-810G, Method 506.5, Procedure I – Rain and Blowing Rain

Salt Fog

- MIL-STD-810G, Method 509.5

BATTERY

- 7.0Ah Rechargeable Lithium-Ion Battery Metal Case (TDSI)
  - 6-Pin
  - 7-Pin (Power pass-through function when battery depleted)
- Battery Charge Thresholds
  - Start Charge: ≤ 85%
  - Stop Charge: ≥ 90%
- Battery Temperature
  - Charging Support: ≤ 50 °C (charging will stop above this temperature)
  - Operation: ≤ 60 °C (battery will temporarily cease operation above this temperature)

ELECTRICAL

- DC Input: 28 VDC per MIL-STD-1275D (11-50 VDC)
- Current Draw Power: 1.79 A (max) with radio
  50 W (max) with radio

SECURITY

- Lock Feature; 0.31" max diameter

ASSEMBLED WITH VIBRATION ISOLATION TRAY (OPTIONAL)

- Dimensions: (W x H x D) 8.00 in. x 4.25 in. x 10.25 in. (20.3 cm x 10.8 cm x 26 cm)
- Weight:
- Without Radio: 5.75 lbs (2.6 kb)
- With Radio: 8.25 lbs (3.75 kg)

With optional vibration isolation tray

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1025 W. NASA Boulevard
Melbourne, FL 32919

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