

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 inserted¹



With AN/PRC-161 inserted²

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



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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.

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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