

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 secure 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



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.

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

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

BATS-D Radio Mount (BRM)

© 2025 L3Harris Technologies, Inc. | 09/2025 | BCS | 23-DSD-315 | Rev-202

NON-EXPORT CONTROLLED: THIS DOCUMENT CONSISTS OF INFORMATION THAT IS NOT DEFINED AS CONTROLLED TECHNICAL DATA UNDER ITAR PART 120.33 OR TECHNOLOGY UNDER EAR PART 772.

L3Harris Technologies is the Trusted Disruptor in the defense industry. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit [L3Harris.com](https://www.l3harris.com) for more information.



1025 W. NASA Boulevard
Melbourne, FL 32919

[L3Harris.com](https://www.l3harris.com)