

BWR Kit

Body Worn Radio

Designed for tactical applications, the body-worn radio supports MeshUltra MANET waveforms to enable self-healing mesh networks of up to 144 nodes.

RF output power is provided up to 200 mW or 400 mW depending on the selected frequency band, with optional AES-128 or AES-256 encryption available for secure communications.

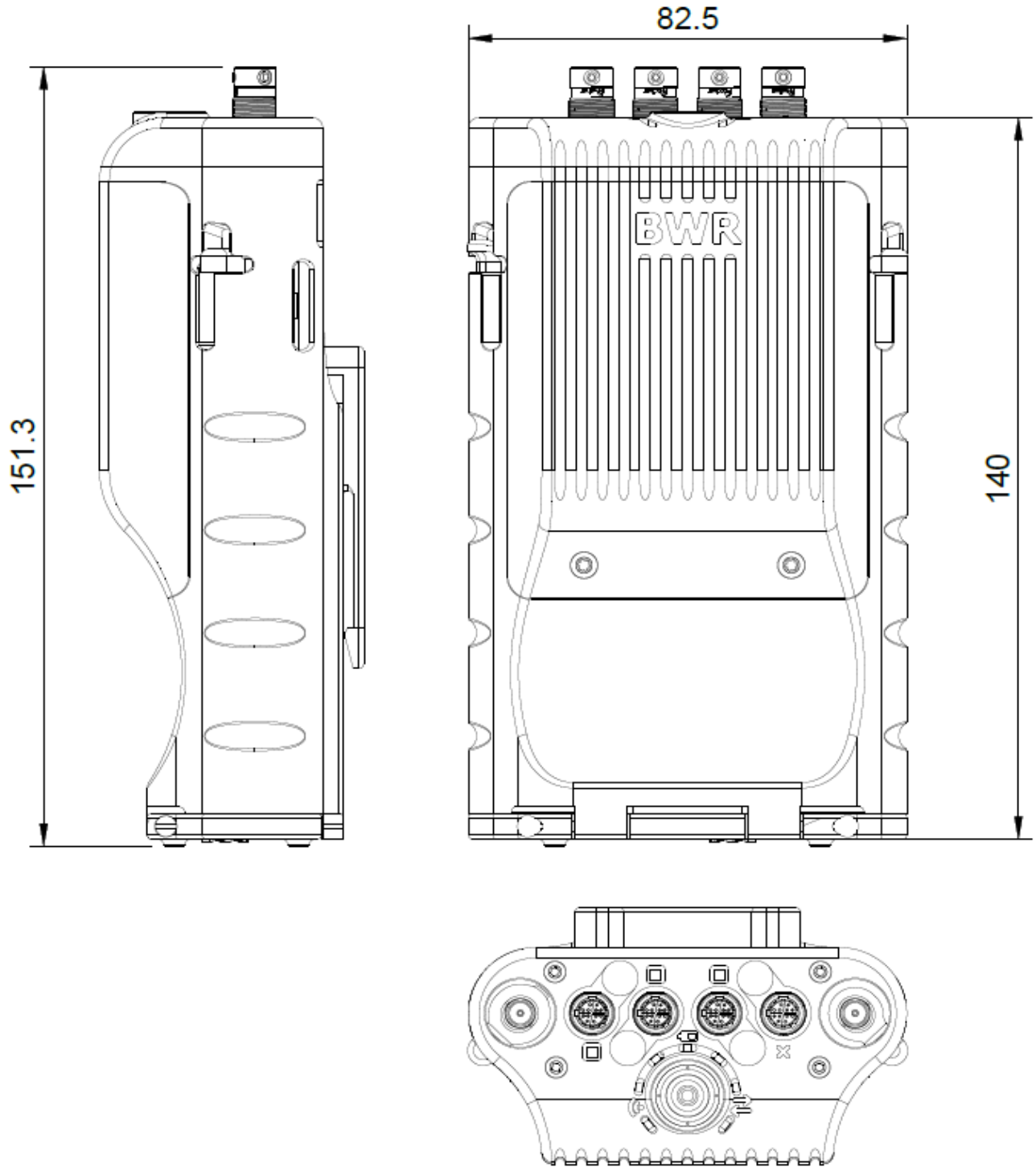
The device offers three USB host ports and a USB peripheral port for charging and control, allowing connection of peripherals such as cellular and Wi-Fi dongles, H.264 cameras, GPS modules, audio headsets, Ethernet adapters, and a field control module. RNDIS support enables Ethernet over USB.

A removable rechargeable battery powers the unit, which is housed in an IP67-rated enclosure for operation in harsh environments.

Overview
Up to 200 mW / 400 mW total (frequency band dependent)
MeshUltra MANET waveforms supporting up to 144 nodes in a self-healing mesh network.
Optional AES-128 / AES-256 encryption
3x USB Host ports (peripheral device support)
1x USB Peripheral port (control and charging)
Supported USB Devices (optional): 3G/4G/Wi-Fi dongles H.264 cameras (up to 2 simultaneous) GPS receiver Audio headset Ethernet Interface Field Control Module (status/configuration)
RNDIS support for Ethernet over USB
Power: Removable, rechargeable battery
Mechanical: Rugged IP67-rated enclosure for tactical environments

Specifications			
Channel Bandwidth	1.25,1.5,1.75,2.5,3.0,3.5,4.0,5.0MHz (MeshUltra-M/-80/-X) 6.0, 7.0, 8.0, 10.0, 12.0, 14.0, 16.0, 20.0 MHz (MeshUltra-M / -80)	Connectors	- 3 x Fischer MiniMax USB Host Ports - 1 x Fischer Minimax USB peripheral Port - 2 x QMA RF Ports
Receiver Perfomrance	Sensitivity:-98dBm at 2.5MHz Bandwidth	Dimesions	151.3mm x 82.5mm x 49.75mm
Network Capacity	Throughput: Up to 87Mbps (MeshUltra)	Enclosure	Black Anodised Aluminium
Storage	Internal: 128 GB microSD	Weight	TBA
Power Input	USB-C Power Delivery (charging and bakcup power)	Operating Temprature	-20 °C to +50 °C
Power Consumption	TBA	Ingress Protections	IP67

Frequency Bands		
120170	1.20 to 1.70 GHz	2x 100 mW
167235	1.67 to 2.35 GHz	2x 200 mW
210250	2.10 to 2.50 GHz	2x 200 mW
420520	4.20 to 5.20 GHz	2x 100 mW



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Product specifications subject to change without notice

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