



CyberWave™

Secure 5G Smart Router

Built for base and tactical field level operations

CODE
SA5G-1001

SECURE. RUGGED. MISSION-READY.

PRODUCT OVERVIEW

CyberWave™ is a compact, high-performance 5G router engineered for secure connectivity in maritime, tactical, and infrastructure environments.

It converts 5G signals into reliable WiFi and Ethernet outputs, enabling local networks for IoT devices, sensors, and crew communications, even in disconnected or denied environments.

Purpose-built for defense operations, delivering flexible performance and secure networking.

APPLICATIONS

Built for harsh environments such as NAVY vessels, forward operating bases, and mobile defense platforms.

With IP67 protection compliance, it withstands saltwater, vibration, shock, and temperature extremes.

Integrated GPS enhances situational awareness, and PQC-ready encryption ensures secure communication across the tactical edge.

KEY FEATURES

- **5G-to-WiFi/Ethernet Conversion:** Provides seamless WiFi (802.11ax) and 10 GbE Ethernet outputs from 5G signals.
- **GPS Integration:** Delivers precise location tracking for enhanced maritime situational awareness.
- **Ruggedized for Maritime Use:** IP67-rated, resistant to saltwater, vibration, and extreme temperatures.
- **High-Speed Connectivity:** Supports up to 1 Gbps WiFi and Ethernet throughput for real-time applications.
- **IoT and Sensor Support:** Connects and manages multiple IoT devices and sensors on naval vessels.
- **Compact Design:** Dimensions cylindrical shape with 0.19m height x 0.38m diameter
- **Energy Efficient:** Low power consumption (15W nom., 30W max), compatible with shipboard power systems (24–48 VDC).



MINI SPECIFICATION

Requirement	Specification
Frequency Bands Supported	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n38, n40, n41, n48, n66, n70, n71, n75, n76, n77, n78, n79 and LTE Bands
Number of Users	1–150
Max Router Throughput	1 Gb/s
Azimuth Sky Coverage	360–degree simultaneous coverage
Ruggedization	Ruggedized Enclosure Options

APPLICATIONS

- Shipboard Communications
- IoT Device Management
- Remote Maintenance and Diagnostics
- Crew Welfare and Morale
- Tactical Data Sharing
- Emergency Response Coordination
- Unmanned Systems Support



Requirement	Specification
Number of Antennas	13 antennas supporting 5G, Wi-Fi, and GPS
Antenna Polarization	Dual Linear Polarization with MIMO Diversity (+/-45° For 5G)
Ruggedization	Ruggedized Enclosure Option
EMI Protection	Resistant to EMI and jamming
Ethernet Data Connector	RJ45
Power Consumption	15W Nominal, 30W Maximum
Supply Voltage	24–48V
Weight	9.8kg
Dimensions	Cylindrical: 0.19m Height, 0.38m Diameter

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