

Multipath Radio (MPR)

The Multipath Radio (MPR) is an advanced radio platform, built on next generation troposcatter system technology, that provides resilient communications where traditional radios fail. This single-box, low-SWAP solution mitigates multipath interference to deliver robust, high-rate data connectivity across LOS, OLOS, and BLOS links for military and commercial operators.



Advanced Multipath Mitigation

Employs a unique combination of diversity techniques and adaptive coding and modulation to solve signal disruption and ensure link integrity in the most challenging environments.

High-Rate Performance

Delivers exceptional throughput with data rates up to 210 Mbps to support data-intensive applications.

BLOS without SATCOM

Provides real-time, over-the-horizon data connectivity up to 150 miles, crucial for satellite-denied or contested environments.

Low SWAP & Expeditionary

A small form factor, all-weather sealed design weighing less than 25 lbs provides users maximum flexibility and a true expeditionary capability.

Antenna Agnostic

Designed to connect with a diverse range of antenna types, including parabolic, flat panel, and ESA, for maximum operational flexibility.

Seamless Network Integration

Features Layer 2 IP interfaces to ease integration with all IP-based MESH and MANET radio networks.

Multipath Radio Platform Technical Specifications	
Frequency Range	4.4 to 4.65 GHz and 4.75 to 5.0 GHz in 100 kHz increments
Output Power	15 watts (5 watts optional)
Data Interface	100/1000 Base-T Ethernet Single
Terminal Data Rate	Stream: 946 kbps to 105 Mbps Dual Stream: 1.9 to 210 Mbps Actual throughput based on terrain
Diversity Order	Dual Frequency or Dual Polarization Quad Diversity capable with additional external RX Assembly
Monitor & Control	Comtech integrated web-based GUI
Engineering Order Wire	Modem GUI Chat
Built-in Test (BIT)	Full set of alarms and parameters monitored by user smart phone or optional tablet
Power	24VDC or 110/220VAC
Consumption	300 watts, Max (15 watt version)
Operational Temperature	-40°C (-40°F) to +60°C (+140°F)
Storage Temperature	-40°C (-40°F) to +70°C (+158°F)
Humidity	Up to 100% condensing
Altitude	Operating: 10,000 ft (3,048 m) Transport: 40,000 ft (12,192 m)
Ingress Protection	IP67
Environmental	Designed to meet MIL-STD-810 and MIL-STD-461 standards
Dimensions	10.50"W x 13.73"H x 6.97"D
Weight	21.2 lbs (15 watt version)

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