



RapidLink 150 Portable Wireless Mesh Router

From the leading innovators of mobile mesh networking technology comes the world's first portable, self-powered OLSR-based mesh router, enabling rapidly deployed, secure, reliable, and scalable data networks for use in field offices, emergency or temporary venues, sensor networks, secure perimeter systems, and many other applications.

Concentris RapidLink networks are deployed faster, cheaper, and easier than any conventional wireless technologies. RapidLink networks produce a secure information grid over any location, whether remote or urban, public or private venue, facility or transit system. Users can instantly, intelligently, and securely share information including voice, data and video over this highly reliable, redundant wireless network.

RapidLink implements the proactive OLSR (Optimized Link State Routing) protocol standard (IETF RFC 3626, Oct 2003). Use RapidLink in stand-alone configurations, or in combination with other OLSR technologies.

Concentris Systems RapidLink networks are:

Easy to deploy and manage - RapidLink routers eliminate the need to string data cable. As the routers are placed throughout a coverage area, they automatically discover their neighbors and create a multi-path redundant mesh wireless network.

Quick to deploy - By eliminating the need for data cabling found in conventional wireless networks, RapidLink networks are deployed in minutes, rather than hours, making them ideal for temporary or emergency applications.

Lower cost deployments - The great reduction in labor and wiring enables RapidLink to significantly reduce the cost of deploying large wireless networks.

Easy to expand and scale - The capacity and coverage area of the wireless network can be expanded simply by adding additional RapidLink routers to the coverage area.

Secure and dependable - RapidLink utilizes AES-based encryption tunnels to protect the data and network from intrusion and eavesdropping.



Rugged and reliable, the RL150 is the world's first fully-portable, self-powered OLSR router.

Reliable and resilient - RapidLink networks automatically detect faults and reroute data traffic to self-heal the network. This resilience makes the network immune to conventional single-point failures.

Features and Benefits

Powerful and portable, the RapidLink 150 operates on a rechargeable battery offering up to 8 hours of operation in a water- and impact-resistant enclosure, providing truly indestructible instant networking.

Self-discovering - Simply place two RapidLink routers within range of each other and they will automatically establish network communication. Just add additional routers to expand your network.

Self-healing - A network of RapidLink routers automatically heals itself and maintains all connections in the event any node fails. If any connection fails, every router in the network automatically adjusts to make sure all sessions remain live.

Self-powered - RapidLink 150 portable routers last up to 8 hours on a single battery charge.

Portable - Weighing less than 10lbs including batteries, RapidLink 150 routers are designed for easy portability.

Rugged - Encased in a tough, shock resistant, weatherproof, dependable and portable unit. Can stand alone (with external power attachment) or integrated into another product.

Data Safe - RapidLink 150 portable routers employ military-grade 168-bit ciphers to keep your information secure.

Open/Non-proprietary - Compliance with open standards-based non-proprietary routing protocols (OLSR) ensures interoperability and enables integration with other open systems.

Extendable - Wireless peer-to-peer connections do not require Ethernet or other wired connections between access points or clients. Connect as many devices together as you like without a significant reduction in network performance or capacity. Wirelessly cover a building, a block or an entire city.

Remotely managed - A Web-based interface monitors network status and performance and supports remote network management.

Flexible - Supports different interfaces enabling multiple power and hardware types, and multiple backhaul connections for redundancy and flexibility.

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Specifications

RapidLink nodes available portable or mountable, and with optional embedded access point

Hardware

Radio: 802.11a
RF Output: variable, max 17 dbm (+/-2dbm)
Operating Frequency: 5.15 - 5.85 GHz
Antenna: 5.5dbi; reverse polarity N-type female connector

Network

Network Interface: 10/100 Industrial Ethernet port
Mesh Routing Protocol: OLSR RFC 3626, with proprietary extensions
Data Rates Supported: 54 Mbps nom
Security Encryption: IPsec, triple Data Encryption Std. 168-bit cipher

Management

Network Management: Web Interface, GUI network manager

Physical

Dimensions: 11.8" x 9.8" x 7.7"
Weight: 11 lbs 6 oz
Housing: HPX Resin

Environmental

Operating Temperature Range: -10 - 80 Celsius
Heat Trap: +6.5 Celsius under full sun (~100,000 Lux)
Humidity: Waterproof
Protection: NEMA 6X, IP-67

Power

Requirements: 10 - 15 VDC, 1 Amp
Output: 100 mWatts
Consumption: 10-Watts nominal
Battery Life: 8 hours +



Web Based Manager

To effectively manage network traffic, RapidLink includes an efficient network visualization tool that optimizes network utilization, manages the network, and reports on the quality of the wireless connection.



Indestructible Instant Networks™

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