

Indestructible Instant Networks ™



RapidLink 100 Wireless Mesh Router

Concentris is a leading innovator of network solutions based on ad hoc mobile mesh networking technology. With our RapidLink 100 family of mesh routers, users can rapidly deploy 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 100 networks are deployed faster, cheaper, and easier than any conventional wireless technologies. So quick to deploy and so resilient, RapidLink networks are truely indestructible instant networks.

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 multipath 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 evesdropping.

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.



RapidLink 100 routers enable reliable networking under the most demanding conditions

Features and Benefits

Rugged and dependable RapidLink 100 routers from Concentris provide wireless and secure communications that can be instantly deployed and are highly resistant to network failure.

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.

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

Small and compact - Can fit into most any area with ease.

Data Safe - RapidLink 100 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: 200 mm x 140 mm x 45 mm

Weight: 1400 grams Housing: Cast Aluminum

Environmental

Operating Temperature Range: -10 - 80 Celsius Heat Trap: +6.5 Celsius under full sun (~100,000 Lux)

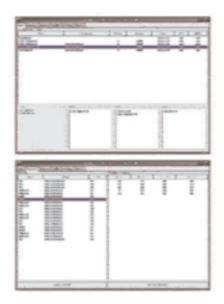
Humidity: Waterproof Protection: NEMA 6X, IP-67

Power

Requirements: 10 - 15 VDC, 1 Amp

Output: 100 mWatts

Consumption: 10-Watts nominal



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.



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