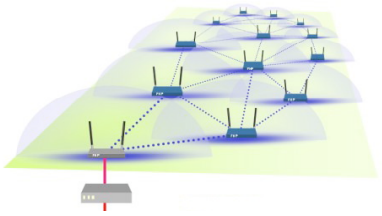
RapidLink™ 100-AP

Wireless Mesh Router with Integrated Access Point

Concentris systems

Indestructible Instant Networks

The RapidLink 100-AP wireless mesh router with integrated access point implements rapidly deployed, rugged and reliable instant 802.11b/g wireless LANs. RapidLink 100-AP works with all the other RapidLink products to create reliable, secure, high-performance data networks that can be field deployed in minutes rather than hours or days. So quick to deploy and so resilient to failure, RapidLink is truly ***indestructible instant networking***.



The RapidLink 100-AP operates in both indoor and severe outdoor environments, such as large or enterprise corporations, as well as severe outdoor environments. This mesh router/access point has two high-gain antennas for optimal wireless coverage. Enclosed in a NEMA-6 chassis, the RL100-AP adheres to strict fire codes and ensures safety. Additionally, this mesh node has an integrated 802.3af Power over Ethernet (PoE) port to allow installation of this device in areas where power outlets are not readily available.

The RL100-AP delivers extremely reliable wireless performance with standard 802.11g wireless throughput rates of up to 54Mbps. The RL100-AP is fully compatible with the IEEE 802.11b and 802.11g standards.

Why the RapidLink 100-AP?

- **Easy to deploy and manage**—RapidLink routers eliminate the need to create a wired network infrastructure. 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. Ideal for temporary or emergency applications.
- **Lower cost deployments**—The great reduction in labor and wiring enables RapidLink to significantly reduce the cost to deploy large wireless networks.
- **Easy to expand and scale**—The capacity/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 unauthorized disruption and eavesdropping.
- **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.
- **Open/Non-proprietary**—Compliance with open standards-based non-proprietary routing protocols (OLSR) ensures interoperability and enables integration with other open systems.
- **Small and Compact**—Can fit into most any area with ease.
- **Manageable**—A Web-based interface monitors network status and performance and supports remote network management.
- **Rugged**—Encased in a tough, shock resistant, weatherproof, dependable and portable unit.
- **Flexible**—Supports different interfaces enabling multiple power and hardware types.

All Concentris RapidLink networks produce a secure information grid over many locations, whether remote or urban, public or private venue, facility or transit system. Users instantly, intelligently, and securely share information including voice, data and video over this highly reliable, redundant wireless network.

With integrated access point, high ruggedability, extensive manageability, and solid security, the new RapidLink 100-AP Wireless Mesh Router with Integrated Access Point provides virtually any environment with a dependable solution for deploying a wireless 802.11b/g network.

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Specifications

RapidLink nodes are available portable or mountable, self-powered or powered externally.

Mesh Radio interface
- Radio: 802.11a
- RF Output: variable, max 17dbm (+/-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**
- Range: est. 500 ft; up to 1/2 mile line of sight

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
- Consumption: 10-Watts nominal

Access Point
- ***Standards*** IEEE 802.11b/g
- ***Data Rate***
  - For 802.11g: 108, 54, 48, 36, 24, 18, 12, 9 and 6Mbps
  - For 802.11b: 11, 5.5, 2, and 1Mbps
- ***Security:*** WPA, 64-, 128-, 152-bit WEP, MAC Address Access Control List
- ***Wireless Frequency Range:*** 2.4GHz to 2.4835GHz
- ***Receiver Sensitivity:*** -72dBm
- ***Transmit Output Power:*** 100mW (+20dBm)

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