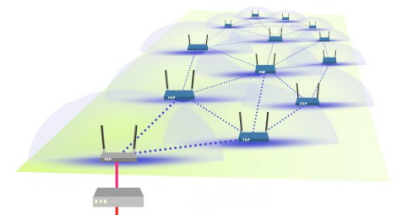


RapidLink MARiNET™ 3200 Gateway

Mobile IP to Mesh Network Gateway



New to Concentris' RapidLink family of mesh products, the RapidLink MARiNET™ 3200 Gateway is the industry's first mesh hardware add-on to the Cisco™ 3200 series Mobile Access Routers. MARiNET extends the Cisco Mobile IP-based network with industry standard Wi-Fi based mobile ad-hoc mesh networking.

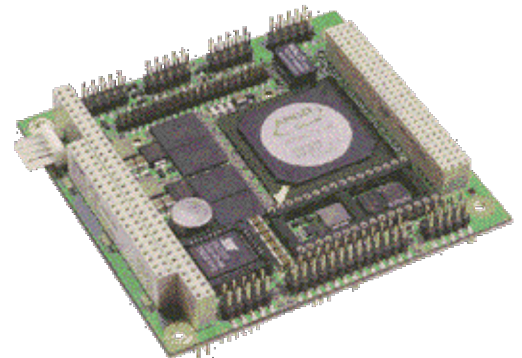


By combining the wide-area coverage of Mobile IP with the versatility and ubiquity of mesh ad-hoc networking, a network can achieve unprecedented levels of coverage and rapid deployment. The MARiNET gateway enables secure, reliable, rapidly deployed, scalable and affordable networks that are ideal for applications in public safety, physical security, homeland security, and national defense.

Naturally, MARiNET is fully interoperable with all RapidLink mesh routers. Users instantly deploy indestructible networks for use in field offices, rescue operations, emergency or temporary venues, sensor networks, secure perimeter systems, and many other applications.

RapidLink MARiNET 3200 is:

- **Easy to deploy and manage**—They eliminate the need to string data cable. As the routers are placed throughout an area, they automatically discover their neighbors to 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. Ideal for temporary and emergency applications.
- **Lower cost deployment**—The great reduction in labor and wiring significantly reduces 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**—Utilization of AES-based encryption tunnels protects data and network from unauthorized disruption and eavesdropping.
- **Reliable and resilient**—RapidLink networks automatically detect faults and reroute data traffic to self-heal. This resilience makes the networks immune to conventional single-point failures.



Concentris 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.

Concentris 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.

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Features and Benefits

Highly rugged and dependable RapidLink routers give truly wireless and secure communications that are instantly deployed—active and fully functioning as soon as the routers are placed.

- **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.
- **Data Safe**—RapidLink networks can also work with multiple backhaul connections, ensuring redundancy.
- **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.
- **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. Can stand alone (with external power attachment) or integrated into another product.
- **Flexible**—Supports different interfaces enabling multiple power and hardware interfaces.

Specifications

Concentris RapidLink networks are ideal for:

- Emergency or temporary venues
- Convoy communications
- Rapidly deployed security perimeters
- Mobile field offices
- First-responder networks
- Wide area security monitoring

Hardware

CPU card: Industry-standard PC-104+
Radio card: 802.11a
RF Output: 23dBm (200 mW)
Operating Frequency: 5.4 - 5.48 GHz
Antenna Connector: Reverse polarity N-Type female

Network

Mesh Routing Protocol: OLSR RFC 3626, with proprietary extensions
Data Rates Supported: 54 Mbps nom
Security Encryption: SSL, triple Data Encryption Std. 168-bit cipher

Management

Network Management: Web Interface, GUI network manager

Physical

Dimensions: 90 mm x 92 mm x 45 mm
Weight: 400 grams
Housing: None; designed to cohabitate the Cisco MAR

Environmental

Operating Temperature Range: -40 - +85 Celsius
Meets MIL-STD-810F and SAE standards

Power

Power Requirements: 5 VDC, 1 Amp
Power Consumption: 5-Watts nominal