BridgeLINK-OFDM Wireless Bridge

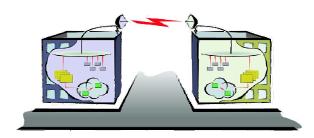
Model RMG-515i



RadioLAN's award-winning BridgeLINK™ wireless bridges provide reliable, high-performance, "building-to-building" connectivity. Used in place of modems, DSL, Frame Relay, or T1 lines, BridgeLINKs connect structures that are miles apart, eliminating recurring costs while unifying the networks.

The BridgeLINK-OFDM is a Telco-grade bridging solution built upon an 802.11a chipset. The advanced architecture of the BL-OFDM provides maximum range and capacity, delivering outstanding performance in a simple, cost-effective package. Using OFDM technology in the 5 GHz ISM, UNII, and North American Public Safety bands (4.9-5.850 GHz), the BL-OFDM operates at a range of up to 48 miles and at a speed of up to 40 Mbps.

The integrated design of the BL-OFDM combines an outdoor antenna with a waterproof enclosure. IEEE compliant Power-over-Ethernet technology simplifies installation, diagnostics, and management.



BridgeLINK-OFDM provides:

- High-speed (Fast Ethernet) connectivity between locations
- · Reliable connections without high recurring costs.
- Simplified installation with Power-over-Ethernet, userfriendly browser interface and antenna aiming tool.

FEATURES

- ☑ Transparent Ethernet Bridge
- OFDM modulation for NLOS operation and superior interference immunity
- ☑ 15 Mbps TCP/IP data rate
- Operates in the license-free ISM and U-NII bands at 5 GHz
- Frequency range: 5.25-5.35 GZ and 5.725—5.875 GHz
- ☑ Range of up to 8 miles in with a line-of-sight (Preliminary)
- ☑ Point-to-point and Multipoint operation supported
- ☑ Embedded RadioNET Manager™ Operating System with built-in web server for simple management and configuration. Includes:
 - HTTP, Telnet, SNMP, and Win32 management interfaces
 - Antenna Aiming Tool
 - LED Diagnostics
- AES encryption without degradation, and legacy support for WEP and TKIP
- Quality of Service (QoS) Support for high-grade voice and video service
- DFS and TPC Support for International Certifications
- Support for IEEE 802.11e, f, h, and I draft standards
- ✓ Industrial-grade waterproof (IP67) housing (Preliminary)
- ☑ Power-over-Ethernet for simple installation
- Built-in lightning arrestor ensures network and power protection
- ☐ High-intensity External LED for easy operation and troubleshooting.



The BridgeLINK-OFDM (Model RMG-515i) wireless bridge delivers high-speed connectivity and a rich set of product features which make it the ideal solution for outdoor connectivity. Based upon an industry standard chipset, the BridgeLINK-OFDM offers speeds up to 15 Mbps and supports the power and frequency negotiation features that make it deployable virtually anywhere in the world. With a range up to 8 miles, the BridgeLINK-OFDM is the ideal solution for corporate backbone links and campus area networks where performance and reliability are paramount.

Specifications

BridgeLINK-OFDM System	+
Model NumberRMG-515i	D
TechnologyOrthogonal Frequency Division Multiplexing (OFDM)	
Radio Signaling Rate	
Throughput	
Range (USA)~ 8 miles	
Media Access Protocol	· · · · · · · · · · · · · · · · · · ·
Ethernet ArchitectureTransparent bridge	
Security MAC-Address authentication, data encryption	
TopologyLine-of-sight, peer-to-peer architecture	
Warranty I Year parts and labor (return to factory)	
BridgeLINK-OFDM (Model RMG-515i) ODU (Outdoor Unit)	MG-515i
Frequency 5.300 & 5.850 GHz U-INII and ISM bands (unlicensed)	MG-3131
Ethernet InterfaceIEEE 802.3 10BaseT/100BaseT, RJ-45 Connector	
Diagnostics	
Receive Sensitivity83 dBm typical—Range –66 to –91 dBm	
Modulation 16-state Quadrature Amplitude Modulation (QAM16)	
Transmission power	
Power Consumption	
Antenna Gain / Type	
Beam width / Polarity	
Adjustments Azimuth: 360° Elevation: ±75°	
Dimensions / Weight	
PoE Adapter	
Dimensions	
Input Power External 48VDC, .33 amp @110-220V Desktop Switcher (Provided	
Ethernet Cable	ł5
Supported lengths	
Software	
ManagementRadioNET Manager™	
Management Interface	
Encryption Standards Supported AES	
Environmental	
Temperature25°- +85° C (Preliminary)	

Approvals (Intentional Radiator) FCC Part 15.407 (U-NII), Industry Canada RSS-210, FCC Class B, Bellcore GR-63-CORE



Relative humidity 96% Maximum

Environmental Compliance......NEMA4, IP-65, IP-67 (Preliminary)

