

Atlas Series™

5250-5875 MHz

45 Mbps Wireless Ethernet Bridge



Introducing the first tri-band ready (5250 MHz – 5875 MHz), point-to-point OFDM Wireless Ethernet Bridge capable of sustained throughput of 45 Mbps with outstanding features including Dynamic Frequency Selection and Adaptable Rate Modulation. The Atlas Series provides exceptional performance and value as a high-capacity backhaul solution for Enterprise and Municipal connectivity, SCADA systems, IP surveillance systems, and “last mile” connectivity solutions (Internet, T1, leased-lines).

Product Highlights

• PERFORMANCE & FLEXIBILITY

The Atlas Series is a carrier-grade, point-to-point backhaul solution that delivers up to 45 Mbps for the license-exempt 5.8 GHz ISM band, the lower 5.3 GHz U-NII band, and the proposed upper 5.47 GHz U-NII band. The Atlas Series utilizes a high-performance OFDM radio with a contention-free point-to-point protocol and user-selectable data rates of 6, 12, 18, 24, 36, 48 and 54 Mbps. Outstanding features include Dynamic Frequency Selection*, TPC*, FEC and ARQ with variable-size sliding window. Packet aggregation allows superior FTP performance over long transmission ranges.

• CHANNEL FLEXIBILITY

The Atlas Series is configured to support up to 23 channels across the U-NII and ISM bands. When combined with software-selectable dual-polarized antennas, exceptional frequency agility can be attained.

• INTERFERENCE MITIGATION

The Atlas Series offers several powerful interference mitigation tools such as FEC, ARQ, and automatic RF transmit power control (TPC).

• COMPACT/RUGGED DESIGN

The Atlas Series radio is designed to withstand the harshest environments, encased in a heavy-duty aluminum housing. These fully weatherized outdoor units, with rugged conduit adapter, offer a small footprint and operate from -40° to 140° F. The ATLAS5010-INT radio is integrated onto the backside of a dual-polarity patch panel antenna, while the ATLAS5010-EXT is a stand-alone connectorized radio supporting external 2-foot to 4-foot dual-polarity dish antennas. Both radios are powered using Power-over-Ethernet (PoE) ensuring ease of installation and quick deployment.

• SECURITY AND AUTHENTICATION

The Atlas Series features MAC level address authentication, 128-bit proprietary encryption, over-the-air data scrambling, and two-level password control via SSL for secure operation.

• MANAGEMENT FEATURES

The Atlas Series enables remote and local management via Telnet, SNMP and HTTP via browser. Powerful tools such as site survey, asymmetrical bandwidth control, and remote temperature and input voltage measurements allow operators total control/flexibility to monitor and manage their network. The radios also feature a built-in LED alignment tool and a universal mounting bracket to minimize deployment costs.

* DFS, TPC and 5.47-5.725 GHz channels available pending FCC approval

