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RedMAX Subscriber Unit (SU-O)

3.3-3.5 GHz



Features:

- employing OFDM
- (QoS) settings
- 3.3 3.5 GHz

The RedMAX SU-O is a ruggedized broadband wireless access product for outdoor subscriber deployment. Designed to WiMAX Forum™ specifications, compliance to the IEEE 802.16-2004 standard ensures its interoperability (as defined by the WiMAX Forum[™]) with an emerging industry-wide base of compatible Point to Multipoint (PMP) equipment.

The RedMAX SU-O is easy and economical to deploy, allowing service providers to quickly provision new services with bandwidth comparable to xDSL. This outdoor unit, available with fully integrated flat panel antenna, or option for use with standalone antenna, includes an audible antenna alignment indicator for quick and simple installation. The indoor Power-over-Ethernet (PoE) adapter provides power for the outdoor unit and the user's Ethernet network access port.

Operating in the 3.3 - 3.5 GHz band, Redline's built-in 3rd generation, Orthogonal Frequency Division Multiplexing (OFDM) non Line of Sight (NLOS) technology helps overcome typical urban obstacles such as trees and buildings while maintaining high reliability. Rugged design standards and sophisticated techniques, including advanced forward error correction (FEC), combine to deliver wireline-equivalent high availability.

The very low latency of Redline's RedMAX SU-O ensures reliable delivery of delay sensitive mission critical services such as circuit-switched voice traffic, video, voice-over-IP (VoIP), and prioritized data traffic. WiMAX-based compatibility, high performance, and easy installation all combine to make the RedMAX SU-O an excellent choice when deploying wireless broadband for business and residential access.





RedMAX Subscriber Unit (SU-O) System Specifications

System Capability:

RF Band: Channel Size: Spectral Efficiency:

Over The Air Rate: Ethernet Data Rate: Maximum Tx Power: Rx Sensitivity:

Cable:

Network Attributes:

Modulation/Coding Rates: Coding Rates: Over the Air Encryption: MAC:

Range:

Duplex Technique:

Wireless Transmission (PHY):

System Configuration: Network Management:

Power Requirements: Available Power Blocks:

Compliance:

Operating Temperature: Antenna:

Dimensions/Weight:

LOS, Optical LOS, non-LOS Cell-based Point-to-Multipoint 3.3-3.5 GHz* 3.5 MHz, 7 MHz Up to 5 bps/Hz (over the air) Up to 3 bps/Hz (net to Ethernet) Up to 35 Mbps (@7 MHz, rates depend on channel size) Up to 23 Mbps (@7 MHz) Up to +20 dBm (region specific) Better than -93 dBm @ BPSK 1/2 (based on BER of 1x10e-6) Maximum length up to 250 ft (76 m) using Redline recommended shielded outdoor cable Transparent bridge 802.10 VLAN 802.1p, TOS/DSCP and L2/L3 address traffic prioritization DHCP client and DHCP pass-through Auto select: BPSK, QPSK, 16 QAM, 64 QAM 1/2, 3/4 and 2/3 DES and AES Cell-based PMP deployment 802.16-2004 compliant PMP 802.16-2004 packet convergence sub-layer mode **TDMA** access Automatic repeat request (ARQ) error correction Over 19 mi (30 km) LOS; 12mi (20 km) PMP Over 1.5 mi (2.5 km) non-LOS TDD (time division duplex) HD-FDD (Half Duplex Frequency Division Duplex) 256 FFT Orthogonal Frequency Division Multiplexing (OFDM) SNMP, FTP, CLI SNMP, standard and proprietary MIBs Full management by RedMAX Management Suite (RMS) PoE-Standard IEEE 802.3af Auto-sensing 110/220/240 VAC 50/60 Hz EMC: EN 301 489-1, EN 301 489-4, EN 55022/CISPR 22; EN 301 753; Safety: IEC 60950-1, EN 60950-1, UL 60950-1; Industry Canada: RSS-192 -40 C to 65 C Standard: Integrated 14 dBi flat panel Optional: Selection of non integrated high gain antennas 8" W x 8" L x 2.5" H (20 cm x 20 cm x 6.35 cm) / 4.5 lbs (2 Kg) not including mounting bracket

Interface Options* Ethernet Option

Standard: Optional: 10/100 Ethernet (RJ-45) 4 port mini switch

Voice Interface Options

VoIP POTS SIP 1 to 4 FXO/FXS



*Contact sales for availability in your region

About Redline Communications

Redline Communications is a technology leader in the design and manufacture of standards-based broadband wireless access solutions. Using industry leading OFDM technologies, Redline's award-winning products provide unmatched high-capacity non line-of-sight capabilities with proven performance, reliability and security. Ideal for a variety of access, backhaul and private network applications, Redline products are meeting the needs of carriers, service providers and enterprises worldwide. Redline has over 20,000 installations in 75 countries across six continents through a global distribution network of 80+ partners.



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