Virtual Fiber™ Outdoor Wireless TCP/IP Transport

ENTERPRISE CPE/XR

Business Quality Wireless Access

The Enterprise wireless terminal is your most economical solution to deliver high performance TCP/IP transport for dedicated access, trunking and mid-range backhaul applications. Deploy Enterprise terminals in pairs for point-to-point service delivery or connect multiple sites using the Redline Ellipse series base station. Both configurations deliver reliable simultaneous voice + data + video services.

Lower antenna heights enabled by superior non-line-of-sight (NLOS) performance simplify and significantly reduce deployment costs, while flexible mounting options and full over-the-air provisioning lowers operating costs for a higher/faster return on investment. Your choice of two Enterprise models ensures the lowest cash cost per user (CCPU) system for most installations (Enterprise-CPE) while also meeting the challenge of sites requiring extra power or extended distances (Enterprise-XR).

ENTERPRISE FEATURES

- Installs in minutes on buildings and street furniture in NLOS locations
- Push all provisioning (SLAs), upgrades and Pay-as-You-Grow features over-the-air
- Comprehensive warranty, maintenance and optimization packages for lowest TCO
- Supported by industry's first CRM-integrated auto-provisioning system

THE VIRTUAL FIBER™ ADVANTAGE

Virtual Fiber™ technology solves your most significant challenge for wireless build-out—crowded and/or tightly regulated spectrum—by providing the widest available selection of type-approved bands, more than 10 programmable channel/bandwidths and very effective interference mitigation processing. Depend on Enterprise systems to transport your data securely and reliably in the harshest conditions.

Enterprise-CPE	Enterprise-XR
Best value	Extended Range Challenges
Up to +44 dBm max. EIRP	Up to +49 dBm max. EIRP
8" Footprint	14.5" Footprint

SYSTEM AT A GLANCE

- High performance wireless terminal for PTP and PMP
- Two models (CPE / XR) meet all your deployment needs
- Approved bands from 3300-3800 to 4940-5875 MHz with over 10 selectable channel sizes
- Simple Layer 2 network integration
- Field-proven in complex urban environments
- Multiple user-defined service levels per terminal
- High-grade cyber security features
- Small footprint and low power requirement
- Optimized for HD video streaming

POWERFUL. VERSATILE. RELIABLE.

redline
communications

ENTERPRISE SPECIFICATIONS

Max EIRP	**Band (MHz)**	**EIRP* (dBm) CPE / XR**	**Antenna Gain (dBi) CPE / XR**
	4940-5875	44 / 49	19/24
	3300-3800	41/48	15/22
	*Max combined tx power, MIMO mode/frequency band specific		
RF Band (MHz)	3300-3800[1], 4940-5875[1]		
Antenna Info	Integrated MIMO directional		
Capability	LOS/OLOS/NLOS software-defined PMP or PTP terminal[1]		
Wireless QoS	Auto channel scanning, DFS		
Transmission	OFDM (orthogonal frequency-division multiplexing), TDD/TDMA 2 x 2 MIMO A/B with STBC & MRRC, high-rejection Tx/Rx filtering		
Throughput	Up to 186.6 Mbps[1] UBR		
Channel Size (MHZ)	0.875/1.25/1.75/2.5/3.5/5/6/7/10/12/14/20 [software selectable[1]]		
Modulation & Coding	BPSK to 256 QAM 7/8[1]		
Spectral Efficiency	9.3 bits per second per Hertz		
Channel Efficiency	Up to 93%		
Security	Management Encryption: TLS v1.2, AES-256, SHA1		
Network Features	Transparent bridge, DHCP pass-through, 802.1Q VLAN (Q-in-Q), VLAN Whitelisting, Syslog, SNTP, spectrum analyzer		
Layer 2	160 Mbps aggregate[1]		
Latency	<10 ms		
Processing (PPS)	>280,000		
MAC	Dynamic and fixed frame, Fast Fusion Link Adaptation		
QoS	802.1p, 802.3x, CIR & PIR settings, up to 8 services per terminal		
Management Interface	Redline ClearView NMS, SNMP v2c/v3, HTTP/HTTPS (Web), Telnet/SSH (CLI), Management VLAN tagging, RADIUS User Authentication		
Provisioning	MAC-Based; Template-based[1]; Automatic using Redline ClearView NMS[1]		
Redundancy	HSR, PRP or RSTP compatible		
Power	<12 W; Standard IEEE 802.3at (PoE) over CAT5 cable 100 m (330 ft) max.		
Temperature	-40 to 60 °C (-40 to 140 °F) dynamic and thermal dissipation (no moving parts)		
Connections	10/100 Ethernet (RJ-45)		
Surge Protection	Built-in: PoE and RF ports		
Enclosure	IP67 (IEC 60259)		
Humidity	100% humidity, condensing		

All specifications are subject to change without notice.
1. Availability restricted by regional regulations, model type, software version and purchased product options key

Compliance

Safety: IEC, EN, and UL/CSA 60950

EMC: EN 301 489-1, EN 301 489-17

5.8 GHz[1]: IC RSS-210, FCC Part 15, ETSI EN 302 502

5.4 GHz[1]: IC RSS-210, FCC Part 15, ETSI EN 301 893

5.2 GHz[1]: IC RSS-210, FCC Part 15

4.9 GHz[1]: IC RSS-111, FCC Part 90

3.65-3.70 GHz[1]: IC RSS-197, FCC Part 90Z

3.5 GHz[1]: IC RSS-192

3.3-3.8 GHz[1]: ETSI EN 302 326-2

Security: FIPS 197 Compliant

RoHS Compliant

Attributes

Dimensions

CPE: 204.8 x 204.8 x 98.3 mm (8.06 x 8.06 x 3.87 in)
XR: 368 x 368 x 98.3 mm (14.5 x 14.5 x 3.87 in)

Weight

CPE: 2.0 kg (4.4 lbs)*
XR: 2.73 kg (6 lbs)*

* Without bracket or antenna

Product Options

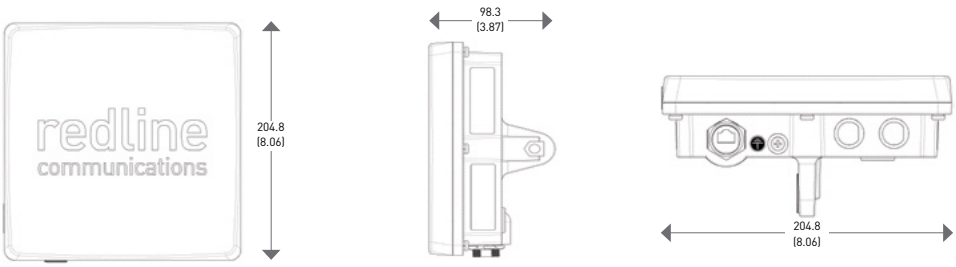
Hardware: See RF Band for frequency ranges

Software/Keyed: Wireless speed—10 Mbps, 50 Mbps, Unlimited

In the Box

RDL-3000 Enterprise [CPE/XR] [Freq.], AC-DC PoE, Ethernet port gland, dust caps, universal mounting bracket for wall or 2"-5" pole.

DRAWINGS



Enterprise-CPE shown
Dimensions are in millimeters (inches)

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