



ELLIPSE UHP

Wireless Base Station for Redline Outdoor Wireless TCP/IP Data Terminals



The RDL-3000 XP Ellipse UHP manages all security, traffic scheduling and Quality of Service (QoS) functions for Redline's extensive family of outdoor wireless TCP/IP remote data terminals. This highly configurable wireless base station features powerful processing capabilities to reliably transport any mix of wireless traffic between the base station and multiple remote sites.

FEATURES AND BENEFITS

- Available in 3400-3650 MHz and 2025-2095 MHz
- Based on field proven RDL-3000 XP standard power
- High throughput for concurrent transport of M2M telemetry and telecontrol, data, video and voice services
- Durable all-weather enclosure for reliable operation in extreme temperatures and environmental conditions including marine
- Over-the-air monitoring, configuration and software keyed features enable upgrades without physical access
- Software-defined architecture enhances reliability and service lifetime

PRODUCT COMPLEMENTS

Redline provides a complete selection of peripherals and professional services for all your deployment needs.

UNIFIED GLOBAL SOLUTIONS

Redline's patented UWTTM technology provides a truly unified wireless networking solution—across the spectrum, across your company and across the globe—enabling secure, reliable, high-speed connectivity to people and smart devices everywhere.

SYSTEM AT A GLANCE

Outdoor software-defined
186.6 Mbps wireless base
station for PMP and PTP
applications

Ultra high transmit power 2x 7W

Reliable fast transport of M2M,
data, HD video and voice at
many remote sites

Geo-location & timing using
built-in GPS

Wide selection of MIMO
antennas

-40 to 60 °C operating range
using dynamic and thermal
dissipation (no moving parts)

High-grade cyber security
features

Very low latency supports
time-sensitive applications

Can be used as the sector or
remote

Lowest power consumption in its
class

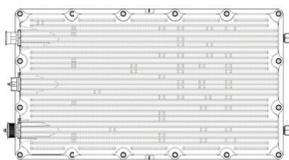
RDL-3000 XP ELLIPSE UHP SPECIFICATIONS

Capability	LOS/0LOS/NLOS PMP Base Station ¹ or PTP Terminal ¹
Wireless transmission	OFDM (orthogonal frequency-division, multiplexing), TDD/TDMA 2 x 2 MIMO A/B with STBC & MRRC
RF Band (MHz)	3400-3650 ¹ 2025-2095 ¹
Channel Size (MHz)	5/7/10/14/20 software selectable ¹
Modulation & Coding	BPSK 1/2 to 64 QAM 5/6, 256 QAM ¹
System Capacity	3 Mbps to 186.6 Mbps ¹ UBR
Max Range	100 km (66 mi)
Max Tx Power	2x 7W (+38 dBm)
Antenna Info	External MIMO sectoral or omni directional
Wireless QoS	Dynamic Spectrum Access & Management ¹
MAC	Per link: dynamic ARQ, dynamic adaptive modulation, dynamic and fixed frame
Security	AES-128/256 (OTA, FIPS 197 compliant); HTTPS (SSL), SSH (CLI), SNMP v3; MAC-based Mutual Authentication; ECDSA Certificates Authentication ¹ , FIPS 140-2 ¹
Connection	10/100 Ethernet (RJ-45), 2xRF N(f), GPS TNC(f)
Layer 2	512 Kbps to 100 Mbps (data rate limited by remote unit's option key) ¹
Latency	<10 ms
Processing (PPS)	>280,000
Attributes	Auto. link distance ranging, transparent bridge, DHCP pass-through, 802.1Q VLAN, Rapid Path
Network QoS	CIR, PIR support, multiple services per terminal, 802.3x, 802.1p
Management	Redline ClearView NMS, SNMP v2, HTTP (Web), Telnet (CLI), RADIUS (User Authentication)
Provisioning	MAC-Based; Template-based ¹ ; Automatic using Redline ClearView NMS ¹
Redundancy	1+1 Warm Standby ¹ , HSR, PRP or RSTP compatible
Temperature	-40 to 60 °C (-40 to 140 °F)
Enclosure	IP67 (IEC 60259)
Humidity	100% humidity, condensing
Location & Timing	Built-in GPS ¹
Surge Protection	Built-in: DC, Data and RF ports
Power	48 VDC 105W

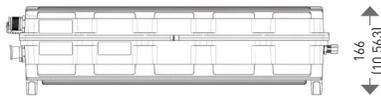
All specifications are subject to change without notice.

1. Availability restricted by regional regulations, model type, software version and purchased product options; 2. Pending;

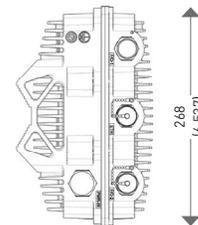
DRAWINGS



505
(19.878)



166
(6.537)



268
(10.537)

Dimensions are in millimeters (inches)

Compliance

Safety: IEC, EN, and UL/CSA 60950²

EMC: EN 301 489-1, EN 301 489-17²

3.5 GHz¹: IC RSS-192²



Physical Attributes

Dimensions

505 x 268 x 166 mm (19.878 x 10.563 x 6.537 in)

Weight

10.2 Kg (22.5 lb)

Patent No.

US 9,468,028 B2

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