RDL-3000 XP **EDGE**

Wireless TCP/IP Data Terminal for Extended Ranges and Frequency Bands

The RDL-3000 XP Edge provides secure reliable wireless transport for challenging fixed point-to-point (PTP) and point-to-multipoint (PMP) deployments requiring higher power, longer range and operation in extended frequency bands.

FEATURES AND BENEFITS

- Highly reliable data terminal with flexible architecture adapts to meet the most challenging PMP and PTP deployment scenarios
- High throughput for multi-service transport including M2M telemetry and telecontrol, data, video and voice services
- Durable all-weather enclosure for reliable operation in extreme temperature ranges and environmental conditions
- Over-the-air monitoring, configuration and software keyed features enable upgrades without physical access
- Software-defined architecture enhances reliability and service lifetime

PRODUCT COMPLEMENTS

The Edge is fully compatible with all Redline RDL-3000 XP family base stations and wireless remote terminals. Redline provides a complete selection of peripherals and professional services for all your deployment needs.

REDLINE'S TECHNOLOGY ADVANTAGE

Redline's award winning Virtual Fiber™ system is advanced technology that delivers wireless multipoint access or transport quickly and cost-effectively. The unsurpassed fixed-wireless and nomadic-wireless solutions has all your communication needs covered, covering a myriad of customer applications.

SYSTEM AT A GLANCE

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

Flexible architecture solve tough deployment challenges

Reliable fast transport of M2M, data, HD video and voice traffic

Wide selection of MIMO antennas

-40 to 75 °C operating range using dynamic and thermal dissipation (no moving parts)

High-grade cyber security features

Very low latency supports time-sensitive applications

Low power requirement suitable for solar applications

FIPS 140-2 Certified

POWERFUL. VERSATILE. RELIABLE.

redline®
communications

RDL-3000 XP EDGE SPECIFICATIONS

Capability	LOS/OLOS/NLOS PMP Terminal, PTP Terminal[1]
Wireless transmission	OFDM (orthogonal frequency-division, multiplexing), TDD/TDMA, 2 x 2 MIMO A/B with STBC & MRRC
RF Band (MHz)	470-698[1], 2000-2300[1], 2300-2700[1], 3300-3800[1], 4940-5875[1]
Channel Size (MHZ)	0.875/1.25/1.75/2.5/3.5/5/6/7/10/12/14/20 software selectable[1]
Modulation	BPSK 1/2 to 64 QAM 5/6, 256 QAM[1]
System Capacity	3 Mbps to 186.6 Mbps[1] UBR
Max Range	150 km (93 mi)
Max Tx Power	+30 dBm[1] (Max combined tx power, MIMO mode/frequency band specific)
Antenna Info	External MIMO
Wireless QoS	Dynamic Spectrum Access & Management[1]
MAC	Dynamic ARQ
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
Connection	10/100 Ethernet (RJ-45), 2xRF N(f)
Layer 2	512 Kbps to 100 Mbps[1]
Latency	<10 ms
Processing (PPS)	>280,000
Attributes	Transparent bridge, DHCP pass-through, 802.1Q VLAN
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	Automatic templates using ClearView NMS[1]
Redundancy	1+1 Hot Standby[1] (PRP or RSTP compatible)
Temperature	-40 to 75 °C (-40 to 167 °F)[3]
Enclosure	IP67 (IEC 60259)
Humidity	100% humidity, condensing
Surge Protection	Built-in: PoE and RF ports
Power	<17W;Standard; IEEE 802.3at (PoE); CAT-5 cable 100 m (330 ft) max.

All specifications are subject to change without notice.
1. Availability restricted by regional regulations, model type, software version and purchased product options; 2. Pending;
3. UHF systems only: 60 °C (140 °F)

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

2.6 GHz[1]: EN 302-544, FCC Part 27

2.4 GHz[1]: IC RSS-210, ETSI 300-328, FCC Part 15C[2]

2.3 GHz[1]: IC RSS-195

2.1 GHz[1]: (2.025-2.110 GHz[1], 2.200-2.290 GHz[1]) ITU-R F.1098

600 MHz[1]: IC RSS-196, FCC Part 15H

Security: FIPS 140-2 Certified

RoHS Compliant

Physical Attributes

Dimensions

306.8 x 230 x 60.3 mm (12.079 x 9.06 x 2.375 in)

Weight

2.7 kg (6.0 lbs) without bracket or antenna

Patent No.
US 9,468,028 B2

DRAWINGS

60.3 (2.375)

230 (9.056)

306.8 (12.079)
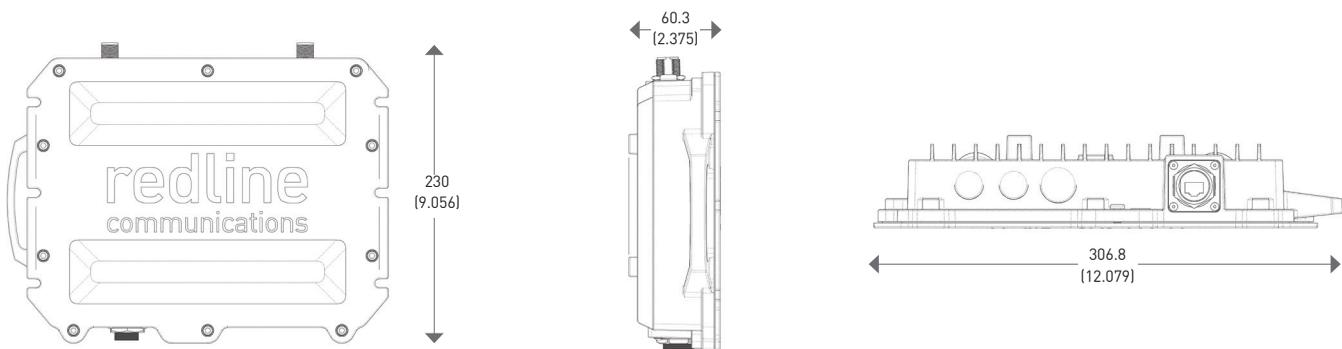
Dimensions are in millimeters (inches)

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