



Elte MT

Wireless TCP/IP Data Terminal for High Security Environments

The RDL-3000 XP Elte MT provides secure reliable wireless transport for very harsh industrial sites. This extremely tough high-speed wireless terminal is purpose-built to operate where commercial grade equipment could not function or would be destroyed.

FEATURES AND BENEFITS

- Highly reliable data terminal with flexible architecture adapts to meet PMP and PTP deployment challenges in extreme locations
- High throughput for multi-service transport including M2M telemetry and telecontrol, data, video and voice services
- Strong interference resistance and non line of sight operation simplifies installation and lowers maintenance costs
- Durable all-weather enclosure for reliable operation in extreme temperatures 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 Elte MT is fully compatible with all Redline RDL-3000 XP family base stations and wireless 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 wireless terminal for PMP and PTP applications

Extends high speed TCP/IP transport to industrial-rated sites

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

Hardened aluminum case with stainless steel components and integrated MIMO antenna

-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

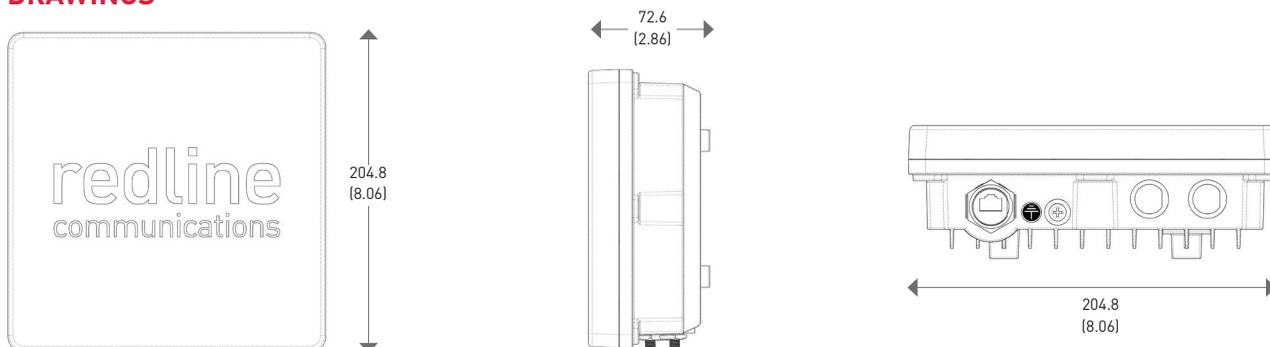
RDL-3000 XP Elte MT SPECIFICATIONS

Capability	LOS/OLOS/NLOS PMP/PTP Terminal		
Wireless transmission	OFDM (orthogonal frequency-division, multiplexing), TDD, 2 x 2 A/B MIMO		
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 to 256 QAM, TDMA		
System Capacity	3 Mbps to 186.6 Mbps UBR		
Max EIRP	Band (MHz)	Tx Power (dBm)	Antenna Gain (dBi)
	5000	22	19
	2500/3000	23	15
	2100	28	14/18
	UHF	23	8
Antenna Info	Integrated 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		
Encryption (OTA)	AES-128 ¹ and AES-256 ¹ (software keyed)		
Connection	10/100 Ethernet (RJ-45)		
Ethernet Rate	Up to 100 Mbps		
Latency	<10 ms		
Processing (PPS)	>280,000		
Attributes	Transparent bridge, DHCP pass-through, 802.1Q VLAN		
Network QoS	Multiple services with unique CIR & PIR, 802.3x, 802.1p/Q		
Management	ClearView NMS, HTTP, SNMP v2/v3, Telnet, HTTPS/SSL, SSH		
Temperature	-40 to 75 °C (-40 to 167 °F)		
Enclosure	IP68 (IEC 60259)		
Humidity	100% humidity, condensing		
Surge Protection	Built-in: PoE and RF ports		
Power	Standard IEEE 802.3at (PoE), cable 91 m (300 ft) max.		

All specifications are subject to change without notice.

1. Availability restricted by regional regulations or product options; 2. Pending

DRAWINGS



Dimensions are in millimeters (inches)

Compliance

Safety: IEC, EN, and UL/CSA 60950

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

5.8 GHz¹: IC RSS-210, FCC Part 15, ETSI EN 302 502

5.4 GHz¹: IC RSS-210, FCC Part 15, ETSI EN 301 893

4.9 GHz¹: IC RSS-111, FCC Part 90

3.65-3.70 GHz¹: IC RSS-197, FCC Part 90Z

3.5 GHz¹: IC RSS-192

3.3-3.8 GHz¹: ETSI EN 302 326-2

2.6 GHz¹: EN 302-544, FCC Part 27

2.4 GHz¹: IC RSS-210, ETSI 300-328, FCC Part 15C²

2.3 GHz¹: IC RSS-195

2.1 GHz¹: (2.025-2.110 GHz¹, 2.200-2.290 GHz¹) ITU-R F.1098

Security: FIPS 140-2 Certified



Physical Attributes

Dimensions

204.8 x 204.8 x 72.6 mm (8.06 x 8.06 x 2.86 in)

Weight

2.0 kg (4.4 lbs) without bracket

Patent No.

US 9,468,028 B2

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