Virtual Fiber™ Outdoor Wireless TCP/IP Transport

eLTE-MT

Wireless TCP/IP Data Terminal for Harsh Industrial Environments

The RDL-3000 eLTE-MT provides secure reliable wireless transport for very harsh industrial sites including a HazLoc certified option for deployment in hazardous zones. 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 concurrent transport of data, M2M telemetry and telecontrol, video and voice
- 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 including hazardous zones
- 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 family base stations and wireless terminals. Redline provides a complete selection of peripherals and professional services for all your deployment needs.

UNIFIED GLOBAL SOLUTIONS

Redline's patented UWT™ 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 terminal for PMP and PTP applications

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

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

eLTE-MT 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 EIRP	**Band (MHz) / EIRP* (dBm) / Antenna Gain (dBi)** 5000 / 44[1] / 19 2500/3000 / 41[1] / 15 2100 / 44/48[1] / 14/18 UHF / 34[1] / 8 *Max combined tx power, MIMO mode/frequency band specific
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[1]
Connection	10/100 Ethernet (RJ-45)
Layer 2	512 Kbps to 100 Mbps[1]
Latency	<10 ms
Processing (PPS)	>150,000
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)[4]
Enclosure	IP68 (IEC 60259)
Humidity	100% humidity, condensing
Surge Protection	Built-in: PoE port
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 key; 2. Pending; 3. In-Process; 4. UHF systems only: max. 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

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

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

HAZ[3]: ATEX/IECEx: Zone 2, CSA: Class 1 Div 2

Security: FIPS 140-2[3], FIPS 197 compliant

RoHS Compliant

Physical Attributes

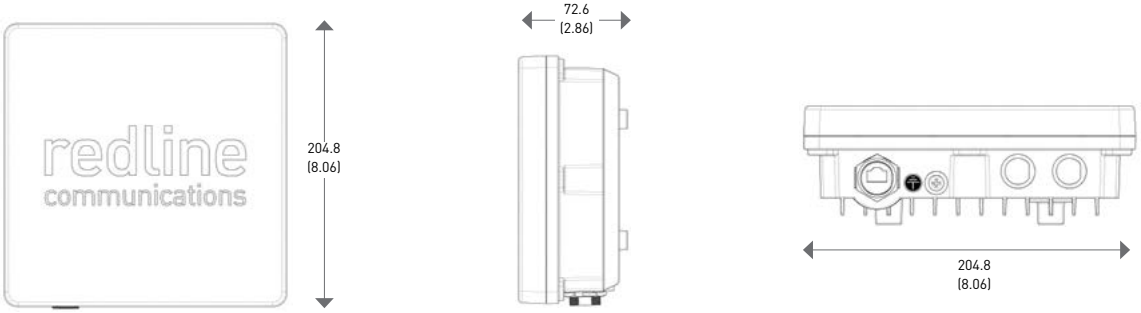
Dimensions

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

DRAWINGS



Dimensions are in millimeters (inches)

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