The portable RDL-3000 XP RAS-Elite provides secure wireless transport directly to temporary field offices, rigs, trucks and other semi-permanent locations. Easily transported and operated by non-technical personnel with no special training, the RAS-Elite automatically obtains and holds a reliable high-speed connection to the fixed Redline wireless network.

**FEATURES AND BENEFITS**

- The highly reliable touchless connection and self-aiming antenna (no moving parts) requires no specialized (telecom) personnel for normal operation
- High throughput for concurrent transport of M2M telemetry and telecontrol, data, video and voice services
- Durable all-weather enclosure for reliable operation in a wide range of 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 RAS-Elite 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.

**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**

- Portable auto-acquire outdoor software-defined 186.6 Mbps wireless terminal
- Extends high speed TCP/IP transport to vehicles, rigs, portable offices and other movable assets
- Reliable fast transport of M2M, data, HD video and voice traffic
- Fully nomadic with auto-acquire and automatic antenna alignment with built-in GPS
- Integrated MIMO antenna
- -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
- Over-the-air monitoring, configuration, upgrades and software keyed speeds and features
RDL-3000 XP RAS-ELITE SPECIFICATIONS

**Capability**
- LOS/OLOS/NLOS PMP Terminal

**Wireless transmission**
- OFDM (orthogonal frequency-division, multiplexing), TDD/TDMA
- 2 x 2 MIMO A/B with STBC & MRRC

**RF Band [MHz]**
- 4940-5400,
- 5400-5875

**Channel Size [MHz]**
- 0.875/1.25/1.75/2.5/3.5/5/6/7/10/12/14/20 software selectable

**Modulation & Coding**
- BPSK 1/2 to 64 QAM 5/6, 256 QAM

**System Capacity**
- 3 Mbps to 186.6 Mbps UBR

**Max Range**
- 29 Km (18 mi)

**Max EIRP**
- 37 dBm (2 x 34 dBm)

**Antenna Info**
- Integrated Dual-Pol, 360° azimuth view

**Wireless QoS**
- Dynamic Spectrum Access & Management

**Security**
- AES-128/256 (OTA, FIPS 197 compliant)
- HTTPS (SSL), SSH (CLI), SNMP v3, MAC-based Mutual Authentication, ECDSA Certificates Authentication, FIPS 140-2

**Connection**
- 10/100 Ethernet (RJ-45)

**Layer 2**
- 512 Kbps to 100 Mbps

**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, HTTP (Web), SNMP v2, Telnet (CLI), RADIUS (User Authentication)

**Temperature**
- -40 to 60 °C (-40 to 140 °F)

**Enclosure**
- IP67 (IEC 60259)

**Humidity**
- 100% humidity, condensing

**Surge Protection**
- Built-in: PoE and RF ports

**Location & Timing**
- Built-in GPS

**Mount**
- Pole, truck rack or magnetic

**Power**
- <13W; Standard IEEE 802.3at (PoE); CAT5 cable 100m (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. In process

---

**Compliance**

**Safety**
- IEC, EN, and UL/CSA 60950

**EMC**
- EN 301 489-17, EN 301 489-1 v.1.8.1, Part 1, EN 301 489 -4 v.1.4.1, Part 4
- 5.8 GHz: IC RSS-210, FCC Part 15, ETSI EN 302 502
- 5.4 GHz: IC RSS-210, FCC Part 15, ETSI EN 301 893
- 4.9 GHz: IC RSS-111, FCC Part 90

**Security**
- FIPS 140-2, FIPS 197 compliant

**Vibration**
- MIL-STD-810F, Method 514.5

**Drop Test**
- MIL-STD-810G, Method 516.6

**Ice**
- Defense Standard-035 part 3 Issue 4

---

**Physical Attributes**

**Dimensions**
- 204.8 x 476.4 x 205.7 mm (8.06 x 18.76 x 8.10 in)

**Weight**
- 3.0 kg (6.6 lbs) without bracket

---

**Patent No.**
- US 9,468,028 B2