

# RDL-3000 XP Enterprise

## UHF/TVWS Wireless Remote Subscriber for Premium Wireless Access

The Enterprise wireless Customer Premise Equipment (CPE) provides high performance TCP/IP transport for dedicated access, trunking and mid-range backhaul applications. Either deployed in pairs for point-to-point (PTP) service or connected from multiple sites to the Aviat Networks' Ellipse series base station in point-to-multipoint (PMP) applications, Enterprise terminals economically deliver reliable, simultaneous voice, data and video services.

In TV Whitespaces (TVWS) regulated regions, the Enterprise 'cognitive radio' efficiently employs dynamical resource allocation technology to access shared spectrum (channels). The systems ability to provide excellent coverage through dense foliage and over water enables reliable economic access to areas where it would be impractical using higher band systems.

Superior performance allows use of lower antenna heights that can significantly reduce deployment costs. Flexible mounting options and full over-the-air provisioning further lowers upfront costs to yield faster ROI.

### ENTERPRISE FEATURES

- Installs in minutes on buildings and street furniture
- Pre-installed speed key, access tokens and CA certificate
- Push all provisioning (SLAs) and upgrades over-the-air
- Comprehensive warranty, maintenance and optimization packages for lowest total cost of ownership (TCO)
- Supported by industry's first CRM-integrated auto-provisioning system

### AVIAT NETWORKS' TECHNOLOGY ADVANTAGE

Aviat Networks' award winning Virtual Fiber™ system is advanced technology that delivers multipoint access or transport quickly and cost-efficiently. The unsurpassed fixed-wireless and nomadic-wireless solution has all your communication needs covered.



### SYSTEM AT A GLANCE

High performance wireless terminal for PTP and PMP

One model - connectorized for choice of antennas

Supports Nominet PAWS DB service

Simple Layer 2 network integration

Field-proven in complex urban environments

Multiple user-defined service levels per terminal

High-grade cyber security features

Low power requirements

Optimized for HD video streaming

## RDL-3000 XP ENTERPRISE SPECIFICATIONS

### OVER THE AIR

<b>Capability</b>	LOS/OLOS software-defined PMP [std.] or PTP terminal [software keyed option] <sup>1</sup>
<b>Max Tx Power</b>	+18 dBm per port <sup>1,2</sup> (Max. 21 dBm combined tx power, MIMO mode/frequency band specific)
<b>Antenna Info</b>	External MIMO directional or OMNI directional
<b>Channel Access</b>	Scheduler with ARQ (Automatic Repeat Request)
<b>Channel Efficiency</b>	Up to 93%
<b>Channel Size</b>	3.5 / 6 / 12 / 18 / 24 MHz [software selectable] <sup>1</sup>
<b>Modulation &amp; Coding</b>	BPSK to 256 QAM 7/8 <sup>1</sup>
<b>RF Band</b>	470-614 MHz <sup>1</sup> , 470-698 MHz <sup>1</sup> with notch at 602-620 MHz
<b>RF Features</b>	Dynamic and multiple Fixed Frame profiles; Fast Fusion Link Adaptation; Frequency scanning; Spectrum Analyzer
<b>Spectral Efficiency</b>	9.3 bits per second per Hertz
<b>Transmission</b>	OFDM, TDD/TDMA 2 x 2 MIMO A/B with STBC & MRRC, high-rejection Tx/Rx filtering
<b>Wireless Throughput</b>	Up to 186.6 Mbps UBR <sup>1</sup>

### NETWORK

<b>Latency</b>	<10 ms
<b>Layer 2</b>	160 Mbps max. aggregate <sup>1</sup>
<b>Management Interface</b>	Aviat Networks ClearView NMS, SNMP v2c/v3, HTTP/HTTPS (Web), Telnet/ SSH (CLI), Management VLAN tagging, RADIUS User Authentication, OTA software upgrades
<b>Network Features</b>	Transparent bridge, DHCP pass-through, 802.1Q VLAN (Q-in-Q), VLAN, Whitelisting, Syslog, SNTP
<b>MAC</b>	Dynamic ARQ
<b>Packet Processing</b>	>280,000 Packets/second
<b>Provisioning</b>	MAC-Based; Template-based; Automatic using Aviat Networks ClearView NMS <sup>1</sup>
<b>QoS</b>	802.1p, 802.3x, CIR & PIR settings, up to 8 services per terminal
<b>Security</b>	Management Encryption: TLS v1.2, AES-256, SHA256

### ENVIRONMENTAL

<b>Enclosure</b>	IP 67 (IEC 60529), Chromate finished aluminum.
<b>Humidity</b>	100% humidity, condensing
<b>Power Requirement</b>	<17 W; standard IEEE 802.3at (PoE) over CAT5 cable 100 m (330 ft) max.
<b>Surge Protection</b>	Built-in: PoE and RF ports
<b>Temperature</b>	Operation: -40 to 55 °C (-40 to 131 °F) dynamic and thermal dissipation (no moving parts) Short-Term Storage: -50 to 85 °C (-58 to 185 °F)

### COMPLIANCE

<b>Bands:</b>	470-698 MHz <sup>1</sup> : FCC 47 CFR Part 15 Subpart H, §15.709 (Nominet PAWS DB service)
<b>EMC:</b>	EN 55032
<b>Safety:</b>	IEC/EN/UL 60950-1, IEC/EN 62368-1

### PATENTS

<b>Website:</b>	Protected by U.S. Patents 8,711,920   8,750,365   8,711,921. Additional patents may be pending in the U.S. and elsewhere [rdlcom.com/patents].
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All specifications are subject to change without notice.

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

2. Channel 35 allowed 2 dBm lower Tx power.

## RDL-3000 XP ENTERPRISE SPECIFICATIONS (CONTINUED)

### 470-614 MHZ WIRELESS REMOTE SUBSCRIBER ENTERPRISE RF

#### Connections

1x 10/100 Ethernet (RJ-45)  
2x RF N(F)

#### Dimensions

204.8 x 204.8 x 98.3 mm (8.06 x 8.06 x 3.87 in)

#### Weight

2.0 kg (4.4 lbs) (without bracket)

#### In the Box

RDL-3000 XP Enterprise RF 470-614 MHz, Ethernet port gland, dust caps, and mounting kit for wall or 1.75-3.0" (25-76 mm) pole.



**Enterprise RF**  
470-614 MHz  
External antenna 2x N(f)  
10/100 Eth RJ-45

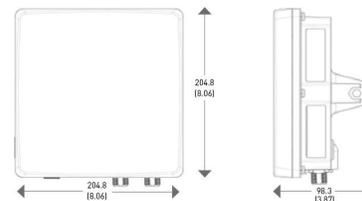


Lightweight  
Mounting Kit



Ethernet  
Port Gland

### DRAWINGS ENTERPRISE RF 470-614 MHZ



### 470-698 MHZ WIRELESS REMOTE SUBSCRIBER ENTERPRISE RF

#### Antenna

Up to +26 dBm max., external MIMO

#### Connections

1x 10/100 Ethernet (RJ-45)  
2x RF N(F)

#### 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)

#### In the Box

RDL-3000 XP Enterprise RF 470-698 MHz, RJ-45 Ethernet port, port gland, dust caps, AC-DC PoE (802.3at) and mounting kit for wall or 1.75-4.5" (25-115 mm) pole.

\*Max combined tx power, MIMO mode/frequency band specific



**Enterprise RF**  
External antenna 2xN(f)  
10/100 Eth RJ-45



Lightweight  
Mounting Kit



Ethernet  
Port Gland



AC PoE  
Power Adapter

### DRAWINGS ENTERPRISE RF 470-698 MHZ

