



# RDL-3000 XP Enterprise

## 4940-5875 MHz 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 midrange 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.

Superior performance allows for lower antenna heights and significantly reduced deployment costs. Flexible mounting options and full over-the-air provisioning lowers upfront costs and yields faster ROI.

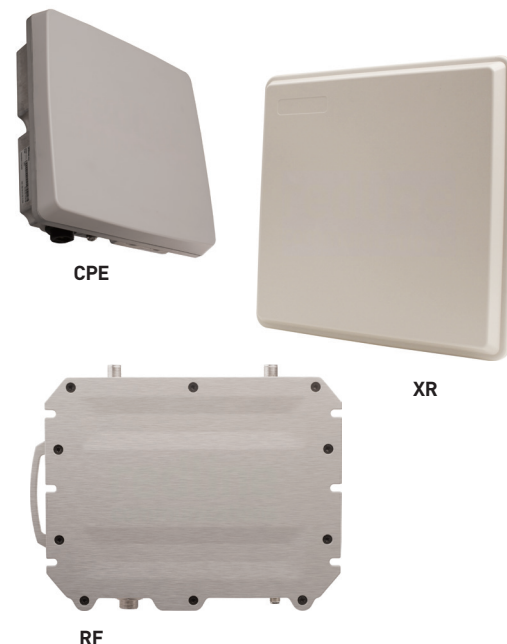
Enterprise CPE offers the most cost-effective solution while Enterprise XR and Enterprise RF meet the challenge of sites requiring extra power or extended distance..

### ENTERPRISE FEATURES

- Installs in minutes on buildings and street furniture
- Push all provisioning (SLAs), upgrades and Pay-as-You-Grow features over-the-air
- Comprehensive warranty, maintenance and optimization packages for lowest 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, while easily outperforming traditional point-to-point microwave applications.



### SYSTEM AT A GLANCE

High performance wireless terminal for PTP and PMP

Three models CPE/XR/RF meet all your deployment needs

Approved bands in 4940-5875 MHz with over 10 selectable channel sizes

Simple Layer 2 network integration

Field-proven in complex urban environments

Multiple user-defined service levels per terminal

High-grade cyber security features

Small footprint and low power requirement

Optimized for HD video streaming

## 4940-5875 MHZ WIRELESS REMOTE SUBSCRIBER - SPECIFICATIONS

### OVER THE AIR

<b>Capability</b>	LOS/0LOS software-defined PMP [std.] or PTP terminal [software keyed option] <sup>1</sup>
<b>Channel Access</b>	Scheduler with ARQ (Automatic Repeat Request)
<b>Channel Efficiency</b>	Up to 93%
<b>Channel Size</b>	0.875/1.75/3.5/7/14 ; 1.25/2.5/5/10/20 MHz [software selectable] <sup>1</sup>
<b>Modulation &amp; Coding</b>	BPSK to 256 QAM 7/8 <sup>1</sup>
<b>RF Band</b>	4940-5875 MHz <sup>1</sup>
<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>	ClearView NMS, SNMP v2c/v3, HTTP/HTTPS (Web), Telnet/ SSH (CLI), Management VLAN tagging, RADIUS User Authentication, OTA software upgrades
<b>Metered Data Speeds</b>	From 512 Kbps to Unlimited (Software keyed option) <sup>1</sup>
<b>Network Features</b>	Transparent bridge, DHCP pass-through, 802.1Q VLAN (Q-in-Q), VLAN, Whitelisting, Syslog, SNMP
<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, SHA1

### ENVIRONMENTAL

<b>Enclosure</b>	IP 67 (IEC 60529), Chromate finished aluminum with polycarbonate radome where applicable.
<b>Humidity</b>	100% humidity, condensing
<b>Power Requirement</b>	<17 W; standard IEEE 802.3af (PoE) over CAT5 cable 100 m (330 ft) max.
<b>Surge Protection</b>	Built-in: PoE and RF ports
<b>Temperature</b>	-40 to 60 °C (-40 to 140 °F) dynamic and thermal dissipation (no moving parts) Short-Term Storage: -50 to 85 °C (-58 to 185 °F)

### COMPLIANCE

<b>Bands:</b>	4.9 GHz <sup>1</sup> : RSS-111, FCC Part 90Y 5.2 GHz <sup>1</sup> : RSS-247, FCC Part 15.407 5.4 GHz <sup>1</sup> : RSS-247, FCC Part 15.407, ETSI EN 301 893 5.8 GHz <sup>1</sup> : RSS-247, FCC Part 15.407, ETSI EN 302 502
<b>EMC:</b>	EN 301 489-17
<b>Safety:</b>	IEC, EN, and UL/CSA 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.

## 4940-5875 MHZ WIRELESS REMOTE SUBSCRIBER - SPECIFICATIONS (CONTINUED)

### ENTERPRISE CPE

#### Antenna

19 dBi, 15 degree, integrated MIMO  
Up to +44 dBm max. EIRP\*

#### Connections

1x 10/100 Ethernet (RJ-45)

#### 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 CPE 4940-5875 MHz with 8 in (205 mm) integrated antenna, RJ45 Ethernet port, port gland and dust caps, AC-DC PoE (802.3af) and mounting kit for wall or 1.75-4.5" (25-115 mm) pole.



**Enterprise CPE**  
8 in Int. Antenna  
10/100 Eth RJ-45



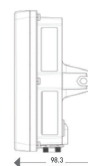
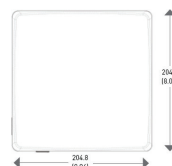
Lightweight  
Mounting Kit



Ethernet  
Port Gland



AC PoE  
Power Adapter



### ENTERPRISE XR

#### Antenna

24 dBi, 8 degree, externally integrated MIMO  
Up to +49 dBm max. EIRP\*

#### Connections

1x 10/100 Ethernet (RJ-45)

#### Dimensions

368 x 368 x 116.6 mm (14.5 x 14.5 x 4.59 in)

#### Weight

3.13 Kg (6.9 lb) (without bracket)

#### In the Box

RDL-3000 XP Enterprise XR 4940-5875 MHz with 14 in (360 mm) externally integrated antenna, RJ-45 Ethernet port, port gland and dust caps, AC-DC PoE (802.3af) and mounting kit for wall or 1.75-4.5" (25-115 mm) pole.



**Enterprise XR**  
14 in Int. Antenna  
10/100 Eth RJ-45



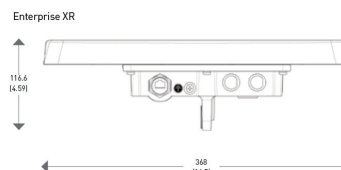
Lightweight  
Mounting Kit



Ethernet  
Port Gland



AC PoE  
Power Adapter



### ENTERPRISE RF

#### Antenna

Up to +25 dBm max., external MIMO

#### Connections

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

#### Dimensions

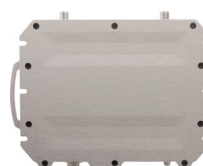
306.8 x 230 x 60.3 mm (12.079 x 9.06 x 2.375 in)

#### Weight

2.7 kg (6.0 lbs) (without bracket or antenna)

#### In the Box

RDL-3000 XP Enterprise RF 4940-5875 MHz with 2x RF N(f), RJ-45 Ethernet port, port gland and dust caps, ACDC PoE (802.3af) and mounting kit for wall or 1.75-4.5" (25-115 mm) pole.



**Enterprise RF**  
Ext. Antenna 2xN(f)  
10/100 Eth RJ-45



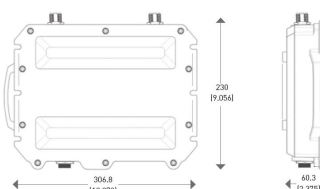
Lightweight  
Mounting Kit



Ethernet  
Port Gland



AC PoE  
Power Adapter



\*Max combined transmit power: MIMO mode/frequency band specific