

TerraNet V90 Model

mmWave PtMP and PtP Radio Unit - Data Sheet (RW6000/V90/F60/UNI/INT)

RW-6P02-9260



Product Description

TerraNet V90 is a PtMP and PtP radio unit that provides up to 2Gbps net aggregate throughput while delivering access connectivity for up to 32 Subscriber Units.

TerraNet V90 support full 60GHz band, including channels 5 and 6, enabling higher throughput on longer links.

The radio comes with an integrated antenna and supports the addition of external antenna kit to improve its performances.

Product Highlights

- Full V-Band support 57-71GHz
- Up to 2300 Mbps net aggregated throughput
- Flexible operation mode: Base Station, Hub or Client
- Supports up to 32 SUs
- Robust and reliable operation in outdoor conditions
- Beamforming antenna with automatic alignment decreasing installation time
- Ease of operation and maintenance

Product Specifications:

Configuration	
Architecture	Outdoor Unit with an integrated antenna
Integrated antenna	Beamforming Antenna 90° x 50°, 16dBi gain, vertical polarization
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT/2500BaseT
LEDs	Ethernet link status, wireless status, signal level, & power
Data Interfaces	1 x 2500BaseT (POE in), 1 x 1000BaseT (POE out)
Radio	
Max Capacity	2300 Mbps net aggregate throughput
Range	Up to 4 km / 2.5 miles *
Channel Bandwidth	Full (2.16GHz), half (1.08GHz)
Modulation	BPSK, QPSK, 16QAM (MCS 1-12); Single Carrier
Error Correction	FEC k = 1/2, 3/4, 5/8, 13/16
Tx Power	Max EIRP 38 dBm
Duplex Technology	TDD
Encryption	AES128 + GCMP
Networking	
Layer 2	Transparent bridge
Max MTU size	Configurable up to 7900 Byte
DHCP snooping	Supported
Traffic shaping	Supported
VLAN Support	802.1Q tagging for Traffic and Management
IPv4/IPv6	supported
Management	Static/DHCP, web interface, SNMP v2 & v3, SNMP traps
Supported Bands	
Band	Radio Compliance
FCC, ISED	57-71 GHz: Full channels: 1-6; Half channels: 1-11 following FCC Part 15.255, RSS-210
ETSI	EN 303 722
Mechanical	
ODU Dimensions	Height: 5" / 13cm, Width: 5" / 12 cm, Depth: 2" / 5.5cm
ODU Weight	15 oz / 425 g
Mount	Pole or wall mountable via mounting kit
Power	
Power Feeding	PoE 38-57V 802.3at Type 2 or 48V on DC input. -48VDC is not currently supported
Power Consumption	17W without PoE out being used, and up to 41W with PoE out being used (using RW-9921-1059 POE)
Output power	On 1G port: passive PoE out max 0.5A
Environmental	
Operating Temperatures	-30°C to 55°C / -31°F to 120°F
Dust and Humidity	IP67 compliant
Certificates	
EMC	FCC Part 15 Subpart B Class B; ICES-003 Issue 7 Class B; EN 301 489-1; EN 301 489-17
Safety	EN IEC 62368-1:2020+A11
Health	EN 50385:2017

Integrated Antenna	
Gain	16 dBi
Azimuth Beamwidth	90°
Elevation Beamwidth	50°
Beamforming	Beamforming antenna with auto-alignment
Beam Size	30° Azimuth x 30° Elevation
Polarization	Vertical

Ordering Info

Part Number: RW-6P02-9260 Worldwide

Description: RADWIN TerraNet V90 Radio Unit, with an integrated antenna, supporting 57-71GHz V-band.

* Maximum distance supported when using external antenna kit

Datasheet information can be changed by manufacturer without prior notice