

RADWIN Subscriber Units, SU PRO Model

Subscriber Unit - Data Sheet (RW5000/SU-Pro/5625/F54/UNI/EMB)



RW-5625-9P54

Product Description

RW-5625-9P54 is SU PRO, Connectorized subscriber unit that delivers up to 25 Mbps net aggregate throughput and supports SLA (CIR) or Best-Effort service level.

SU PRO supports 4.9 to 6 GHz and complies with Universal, FCC/IC, MII & UBR regulations.

The unit includes an embedded antenna and connectors (2 x SMA) for the high gain slide-on TurboGain antenna. The connectors can be used for 3rd party external antenna.

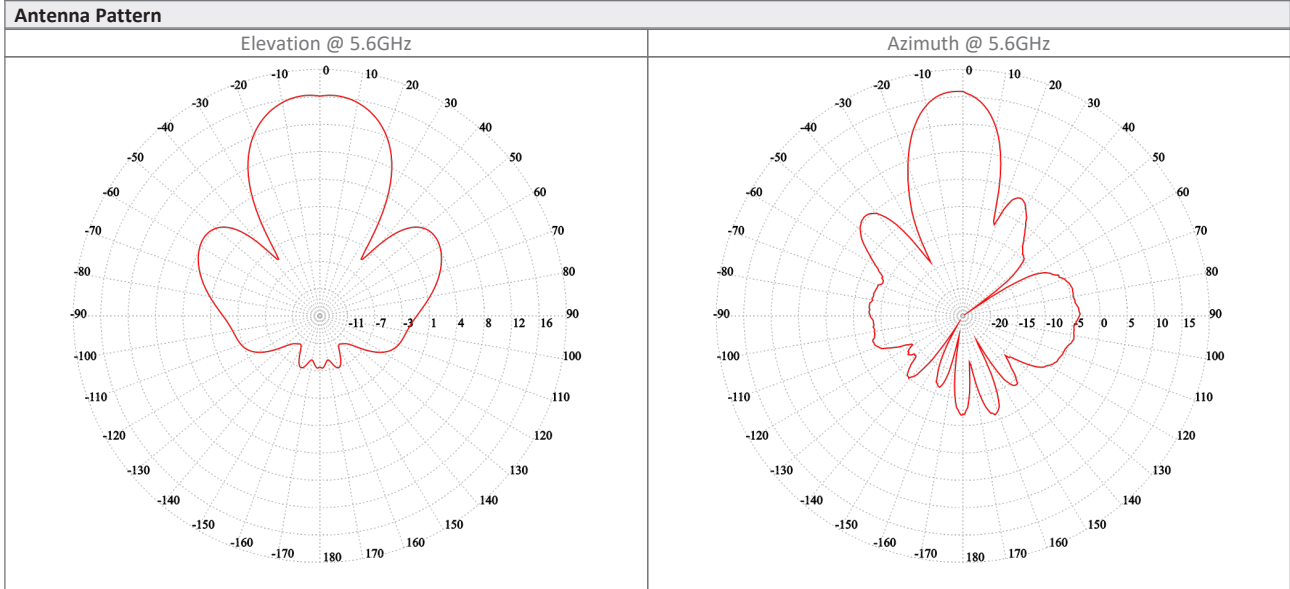
Product Highlights

- Up to 25 Mbps net aggregated throughput, upgradable to 250Mbps
- Long range - Up to 40 km / 25 miles
- Guaranteed Service Level Agreement based on CIR or Best Effort Service level
- Multiple Antenna configuration: 16dBi embedded antenna, 22dBi antenna when using the TurboGain antenna, and 3rd party external antenna
- Short and constant latency
- Advanced MIMO, OFDM and Antenna Diversity
- Robust and reliable operation in harsh environmental conditions including obstructed line-of-sight scenarios
- IP-66
- Simplified installation using a Smartphone app.

Product Specifications:

| Configuration | | | | | |
|------------------------------|--|-----------------|-----------------|-----------------|--------------------------------------|
| Architecture | Outdoor Unit with an embedded antenna and connectors for external antenna (2 x SMA) | | | | |
| PoE to ODU Interface | Outdoor CAT-5e; Maximum cable length: 100m for 10/100BaseT and 75m for 1000BaseT | | | | |
| Radio | | | | | |
| Max Capacity | 25 Mbps net aggregate throughput; Upgradable to 250 Mbps with license key | | | | |
| Range | Up to 40 km / 25 miles | | | | |
| Channel Bandwidth | Configurable: 10, 20, 40, 80 MHz (for the default band); Dynamic Channel BW selection (20/40/80 MHz) | | | | |
| Modulation | MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) | | | | |
| Adaptive Modulation & Coding | Supported | | | | |
| DFS | Not Supported | | | | |
| Diversity | Supported | | | | |
| Max Tx Power | 24 dBm | | | | |
| Duplex Technology | TDD | | | | |
| Error Correction | FEC k = 1/2, 2/3, 3/4, 5/6 | | | | |
| Encryption | AES 128 | | | | |
| Support Indoor units | RADWIN PoE device (included in the package); pinout: (+) pins 4/5, (-) pins 7/8 | | | | |
| Uplink / Downlink Allocation | Configurable: Symmetric or Asymmetric | | | | |
| Layer 2 | HUB Mode | | | | |
| QoS | Packet classification to 4 priority queues according to 802.1P or Diffserv | | | | |
| VLAN Support | 802.1Q, QinQ, 4094 VLANs | | | | |
| ODU Management | IPv4/IPv6 dual-stack; SNMP v1, SNMPv3; HTTP/HTTPS using web browser | | | | |
| 802.1x | Supported | | | | |
| Option 82 | Supported | | | | |
| Non PPPoE filtering | Supported | | | | |
| DHCP Filter | Supported | | | | |
| IGMP snooping | Supported | | | | |
| Nomadic subscribers | Supported | | | | |
| RADIUS Authorization | Supported | | | | |
| RADIUS User authentication | Supported | | | | |
| Syslog | Supported | | | | |
| Supported Bands | | | | | |
| Band | CBW 10MHz [GHz] | CBW 20MHz [GHz] | CBW 40MHz [GHz] | CBW 80MHz [GHz] | Radio Compliance |
| 5.4 GHz Universal (default) | 5.470-5.725 | 5.465-5.730 | 5.455-5.740 | 5.455-5.760 | Universal |
| 5.8 GHz FCC/IC | 5.730-5.845 | 5.730-5.845 | 5.730-5.845 | 5.730-5.845 | FCC 47CFR Part 15.407; ISSED RSS-247 |
| 4.9 GHz Universal | 4.900-4.995 | 4.900-4.995 | 4.900-4.995 | 4.900-4.995 | Universal |
| 6.0 GHz Universal | 5.695-6.055 | 5.690-6.060 | 5.680-6.070 | 5.680-6.090 | Universal |
| 5.9 GHz Universal | 5.725-5.955 | 5.720-5.960 | 5.710-5.970 | 5.710-5.990 | Universal |
| 5.9 GHz Universal | 5.725-5.850 | 5.725-5.850 | 5.725-5.850 | 5.725-5.850 | Universal |
| 5.1 GHz Universal | 5.145-5.340 | 5.140-5.345 | 5.130-5.355 | 5.130-5.375 | Universal |
| 5.8 GHz MII | 5.725-5.850 | 5.725-5.850 | 5.725-5.850 | 5.725-5.850 | CMIIT RTA |
| 5.1 GHz UBR | 5.125-5.880 | 5.125-5.880 | 5.125-5.880 | 5.125-5.880 | Universal |
| Mechanical | | | | | |
| ODU Dimensions | 18.2(w) x 18.2(h) x 6.0(d) cm | | | | |
| ODU Weight | 0.5 kg / 1.10 lbs | | | | |
| Power | | | | | |
| Power Feeding | Power provided over ODU-IDU cable | | | | |
| Power Consumption | <13W | | | | |
| Environmental | | | | | |
| Operating Temperatures | -35°C to 60°C / -31°F to 140°F | | | | |
| Humidity | 100% condensing, IP66 | | | | |
| Safety | | | | | |
| US/CAN (cTUVus) | UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22 | | | | |
| CE/IEC | EN/IEC 60950-1, EN/IEC 60950-22 | | | | |
| EMC | | | | | |
| FCC | 47 CFR, Part15, Subpart B, Class B | | | | |
| ETSI | EN 301 489-1, EN 301 489-4, EN 301 489-17 | | | | |
| CAN/CSA-CEI/IEC | CISPR 22-2010 Class B | | | | |

| Integrated Antenna | |
|------------------------|---------------------------------------|
| Gain | 16 dBi |
| VSWR | 1.7:1 |
| 3 dB Azimuth Beamwidth | 17 Deg. (typ) |
| Polarization | Dual Linear (Vertical and Horizontal) |
| Sidelobes Level | -12 dB(typ) |
| Cross Polarization | -30dB (typ) |
| F/B Ratio | -25 dB |
| Port To Port Isolation | 35 dB (typ) |
| Lightning Protection | DC Grounded |



Ordering Info

Part Number: RW-5625-9P54

Description: RADWIN SU-PRO 25 ODU, with an embedded antenna and connectorized for external antenna (2 x SMA), supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal.

Datasheet information can be changed by manufacturer without prior notice