

RADWIN 5000 – HPMP

RW-5520-9154 Subscriber Unit – Data Sheet



HSU 520 SERIES

Subscriber Units - RW-5520-9154

RADWIN RW-5520-9154 Subscriber Unit (HSU) provides high capacity access connectivity of up to 20Mbps net aggregate throughput. RW-5520-9154 works with HBS-5200 base station.

RW-5520-9154 supports 5.X GHz complies with FCC/IC and universal regulations.

Product Highlights

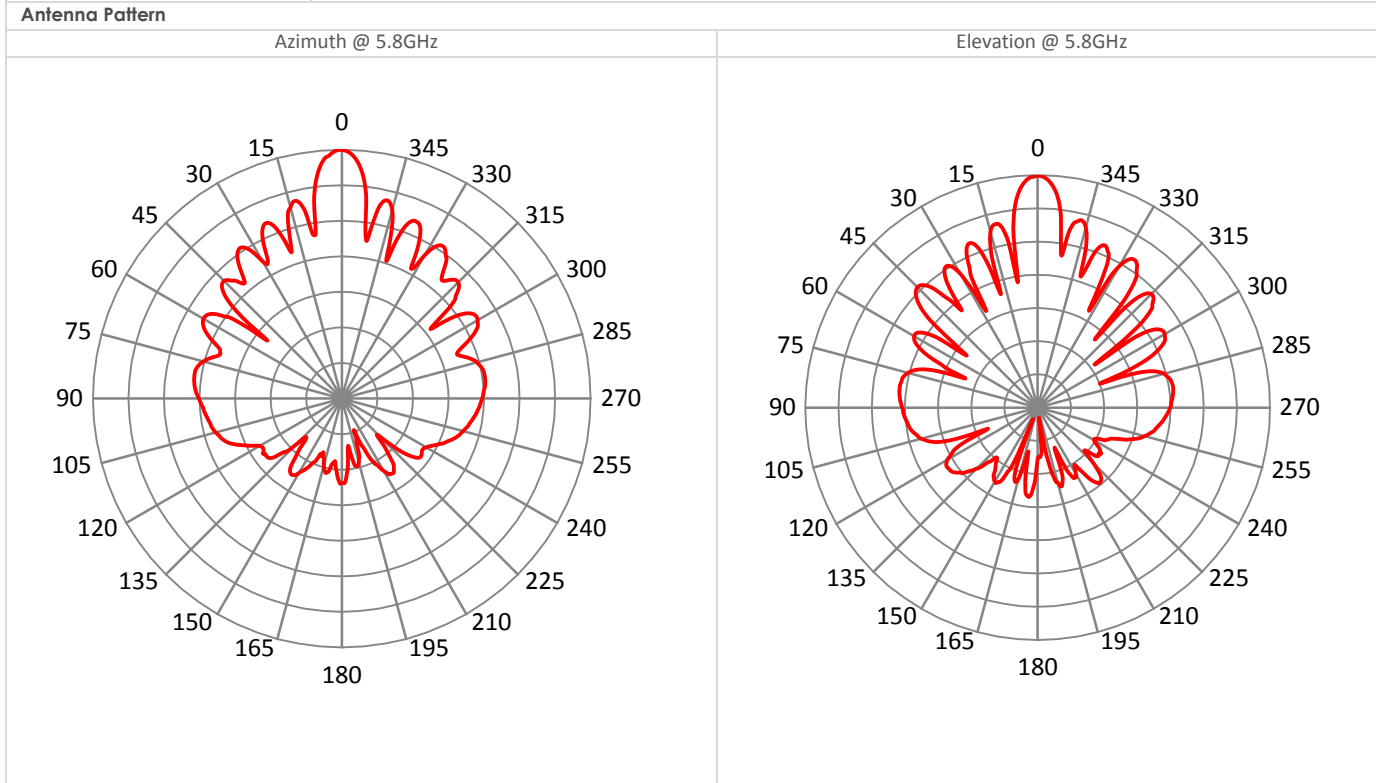
- Up to 20 Mbps net aggregate throughput
- Guaranteed Service level Agreement (SLA) per HSU
- Outstanding short and constant latency
- Long range – up to 40 km/25 miles
- Advanced MIMO, OFDM and Diversity technologies
- Excellent operation in nLOS and NLOS scenarios
- Ease of operation and maintenance

RW-5520-9154 - Product Specifications

| CONFIGURATION | |
|-----------------------------------|--|
| Architecture | Outdoor Unit with Integrated Antenna |
| PoE to ODU Interface | Outdoor CAT-5e cable; Maximum cable length: 100 m |
| RADIO | |
| Capacity net aggregate throughput | 20 Mbps |
| Range | Up to 40 km / 25 miles |
| Channel Bandwidth | Configurable: 5 ,10,20 and 40 MHz |
| Bandwidth allocation | Symmetric and Asymmetric |
| Modulation | 2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM) |
| Adaptive Modulation & Coding | Supported |
| DFS | Supported |
| Diversity | Supported |
| Spectrum Viewer | Supported |
| Max Tx Power | 25 dBm |
| Duplex Technology | TDD |
| Error Correction | FEC k = 1/2, 2/3, 3/4, 5/6 |
| Encryption | AES 128 |
| Supported Indoor Units | RADWIN PoE device (RW-9921-001X) |
| Ethernet Interface | 10/100 BaseT |
| Layer 2 | Hub Mode |
| QoS | Supported Packet classification to 4 queues according to 802.1p and Diffserv |
| VLAN | Supported 802.1Q, 8021.P, QinQ |

| SUPPORTED BANDS RW-5520-9154 | | |
|-------------------------------------|---|--|
| 5.4 GHz Universal* | 5.465 - 5.730 GHz | Universal |
| 6.0 GHz Universal | 5.690 - 6.060 GHz | Universal |
| 5.9 GHz Universal | 5.730 - 5.960 GHz | Universal |
| 5.3 GHz Universal | 5.140 - 5.345 GHz | Universal |
| 4.9 GHz Universal | 4.890 - 5.010 GHz | Universal |
| 5.8 GHz FCC/IC | 5.725 - 5.850 GHz | FCC 47CFR, Part 15, Subpart C and IC RSS-210 |
| 4.9 GHz FCC/IC | 4.940 - 4.990 GHz | FCC 47CFR, Part 90, Subpart Y and IC RSS-111 |
| *Default Band | | |
| MECHANICAL | | |
| ODU Dimensions | 37.1(w) x 37.1(h) x 11.0(d) cm | |
| ODU Weight | 3.5 kg / 7 lbs | |
| POWER | | |
| Power Feeding | Power provided over ODU-IDU cable using PoE | |
| Power Consumption | <20W | |
| ENVIRONMENTAL | | |
| Operating Temperatures | -35°C to 60°C / -31°F to 140°F | |
| Humidity | 100% condensing, IP67 (totally protected against dust and against immersion up to 1m) | |
| SAFETY | | |
| FCC/IC (cTUVus) | UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22 | |
| ETSI | EN/IEC 60950-1, EN/IEC 60950-22 | |
| EMC | | |
| FCC | 47 CFR Class B, Part15, Subpart B | |
| ETSI | EN 300 386, EN 301 489-1, EN 301 489-4 | |
| CAN/CSA-CEI/IEC | CISPR 22-04 Class B | |
| AS/NZS | CISPR 22-2004 Class B | |

| Integrated Antenna | |
|------------------------|---|
| Gain | 18.5 dBi @ 4.9-5.0 GHz 19.5 dBi @ 5.0-5.15 GHz 22.5 dBi @ 5.15-6.0 GHz 21.5 dBi @ 6.0-6.06 GHz |
| VSWR | 1.5 : 1 (typ) 1.7 : 1 (max) |
| 3 dB Beamwidth | 9° (typ) |
| AZ & EL Beam Squint | ± 2° Port V & Port H |
| Polarization | Dual Linear (Vertical and Horizontal) |
| Sidelobes Level | ETSI EN 302 085 V1.1.2, TS1-TS3 |
| Cross Polarization | ETSI EN 302 085 V1.1.2, TS1-TS3 |
| F/B Ratio | -35 dB (max) |
| Port To Port Isolation | 40 dB (min) |
| Lightning Protection | DC grounded |



Ordering Info

Part Number: RW-5520-9154

Description: RADWIN HSU 520 Series Subscriber Unit Radio with high gain integrated antenna, supporting multi frequency bands at 5.x GHz, factory default 5.4 GHz Universal

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