

RADWIN

5000L Connectorized

PtMP Base Station

Data Sheet



Product Overview

The 5000L connectorized is a sector Base Station radio unit that provides up to 250Mbps for 16 end-users over the 4.9 to 6 GHz band and comes with two N-type connectors for external antenna. The unit supports collocation of RADWIN radios via a built-in GPS.

Competitively priced, RADWIN 5000L offers a compact, low visual impact base station that is designed for low-density areas with a few end-users.

Using RADWIN's unique Air-Interface, the unit assures end user SLA via CIR (Committed Information Rate).

5000L is ideal for video surveillance connectivity, remote automation and IOT connectivity, outdoor Wi-Fi backhaul and many other applications.

Product Highlights

- » Up to 250Mbps net aggregated throughput
- » Up to 16 end users
- » Service levels: CIR or Best effort
- » Built-in GPS for TDD synchronization
- » Up to 40 km / 25 miles
- » Highly durable – IP67
- » Robust and reliable operation
- » Low visual impact
- » 4.9 to 6GHz

Product specifications:

| Configuration | |
|-------------------------------------|--|
| Architecture | Outdoor Unit connectorized for external antenna (2 x N-type) |
| Wireless topology | PtMP base station |
| Data interfaces | 10/100/1000 Mbps RJ45 PoE, |
| POE and ODU interfaces | Outdoor CAT-5e; Maximum cable length: 75m for 1000BaseT |
| Radio | |
| Max capacity | 250 Mbps net aggregate throughput |
| Maximum Subscriber Units | Up to 16 |
| Range | Up to 40 km / 25 miles* |
| Frequency Range | 4.900 GHz – 6.070 GHz* |
| Channel bandwidth | Configurable: 10, 20, 40 MHz * |
| Dynamic Channel bandwidth selection | 20/40 MHz |
| Modulation | MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) |
| Error correction | FEC k = 1/2, 2/3, 3/4, 5/6 |
| Adaptive modulation and Coding | Supported |
| Smart Bandwidth Management (DBA) | Supported |
| DFS | Supported * |
| Duplex technology | TDD |
| Diversity | Supported |
| Antenna modes | MIMO 2x2, diversity , adaptive MIMO/diversity |
| Max TX power | 26 dBm * |
| Encryption | AES128 |
| TDD Intra site synchronization | Supported via built-in GPS receiver |
| TDD Inter site synchronization | Supported via built-in GPS receiver |
| Uplink/Downlink allocation | Configurable: Symmetric or Asymmetric |
| Networking | |
| Sub convergence layer | Layer 2, Bridging learning of 5K MAC addresses |
| QoS | Packet classification to 4 priority queues according to 802.1P or Diffserv |
| VLAN support | 802.1Q, QinQ, 4094 VLANs |
| MTU size | Up to 9216 bytes |
| ODU management | IPv4/IPv6 dual-stack; SNMPv1, SNMPv3; HTTP/HTTPS using web browser |
| DCHP option 82 | Supported |
| RADIUS authorization | Supported |
| RADIUS user authentication | Supported |
| Syslog | Supported |

* May be limited by regulation - please refer to technical datasheet for a specific part number

Physical Specification:

| Mechanical | |
|-----------------------|--|
| Dimension | 32.5 (w) x 32.5.0(h) x 6.4 (d) cm / 12.8" (w) x 12.8" (h) x 2.5" (d) |
| Weight | 2kg/4.41lbs |
| Power | |
| Power consumption | <13W |
| Power feeding | Power provided over ODU-IDU cable |
| Environmental | |
| Operating temperature | -35°C to 60°C / -31°F to 140°F |
| Humidity | 100% condensing |
| Enclosure protection | IP67 per EN/IEC 60529, NEMA Type 4 Enclosure |

Regulatory compliance:

| Radio | |
|----------------------|---|
| USA | FCC 47CFR Part 15.407 |
| Canada | ISED RSS-247 |
| EU | ETSI EN 301 893; ETSI EN 302 502 |
| Safety | |
| CE/IEC | EN/IEC 62368-1, EN/IEC 60950-22 |
| USA/Canada (cTUVus) | UL/CSA-C22.2 62368-1, UL/CSA-C22.2 60950-22 |
| EMC | |
| EU | ETSI EN 301 489-1, ETSI EN 301 489-4, ETSI 301 489-17 |
| USA | FCC 47CFR Part 15 Subpart B, Class B |
| Canada/CSA – CEI/IEC | ICES-003, CISPR 32 Class B |
| AS/NZS | CISPR 32 Class B |

Product ordering:

| Radio units | | | |
|------------------|----------------------------------|---|--------------|
| Part number | Product name | Regulation | Default band |
| RW-5LB5-2254 | RW5000/HBS-Pro/5LB5/F54/ETSI/EXT | ETSI | 5.4 GHz |
| RW-5LB5-4258 | RW5000/HBS-Pro/5LB5/F58/WPC/EXT | WPC | 5.8 GHz |
| RW-5LB5-8258 | RW5000/HBS-Pro/5LB5/F58/MII/EXT | MII | 5.8 GHz |
| RW-5LB5-9254 | RW5000/HBS-Pro/5LB5/F54/UNI/EXT | UNIVERSAL | 5.4 GHz |
| PoE units | | | |
| Part number | Product name | Product description | |
| RW-9921-2059 | POE/DC/GBE/ET/10-60 | DC input 10V – 60V | |
| RW-9921-400X | POE/AC/2.5/GBE | AC input 100VAC – 240VAC See POE datasheet for country specific power plug | |
| PoE switch units | | | |
| Part number | Product name | Product description | |
| RW-7401-6006 | IDU-S/HP | Managed indoor switch, 6x PoE ports, SFP/SFP+ interfaces | |

Package contents:

Radio unit

Mounting Kit

IP67 Cable glands

Datasheet information can be changed by manufacturer without prior notice