

RADWIN 2000 C-Series

RW-2049-0200



RW-2049-0200

RW-2049-0200 is a carrier-class radio supporting the 2.4 GHz, 4.9 GHz and 5.x GHz bands and complying with FCC, IC (Canada), MII (China) and WPC (India) regulations (factory default: 4.9 GHz FCC). The multi-band radio is part of the RADWIN 2000 C-Series that delivers high capacity and extended range for carriers' backhaul needs.

Packing native TDM and Ethernet over a single wireless link, the RADWIN 2000 C-Series provides 200 Mbps net aggregate throughput (up to 16 E1/T1plus Ethernet) at a range of up to 120 km/75 miles.

RADWIN RW-2049-0200 is connectorized for use with external antennas.

Product Highlights

- 200 Mbps Ethernet net throughput and up to 16E1s/T1s
- Native TDM transport
- GBE support
- Single Small Form factor with embedded antenna and connectorized for external antenna
- Long range – up to 120 km/75 miles
- Adaptive asymmetric throughput – dynamic allocation between uplink and downlink
- Single radio supporting multiple bands (2.4 GHz, 4.9 GHz and 5.x GHz)
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable to operate in tough conditions, extreme temperatures and non line-of-sight scenarios

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Product Specifications

| Configuration | |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Architecture | Outdoor Unit Connectorized for External Antenna |
| IDU to ODU Interface | Outdoor CAT-5e cable; Maximum cable length: 100m |
| Radio | |
| Capacity | 100 Mbps net aggregate throughput (up to 16 E1s/T1s plus Ethernet) |
| Range | Up to 120 km / 75 miles |
| Channel Bandwidth | Configurable: 5,10, 20 or 40MHz |
| Modulation | 2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM) |
| Adaptive Modulation & Coding | Supported |
| Automatic Channel Selection | Supported |
| Diversity | Supported |
| Spectrum View | Supported |
| Max Tx Power | 26 dBm |
| Duplex Technology | TDD |
| Error Correction | FEC k = 1/2, 2/3, 3/4, 5/6 |
| Encryption | AES 128 |
| Supported Indoor Units | IDU-C Series (RW-72XX-2000), IDU-E Series (RW-71XX-1000) RADWIN PoE device (RW-9921-001X) |
| QoS | Packet classification to 4 queues according to 802.1p and Diffserv, Dynamic scheduling according to air interface changes |
| VLAN | Supported |
| Ethernet Ring Protection | Supported, including Ethernet 1+1 |
| Hub Site Synchronization (HSS) | Up to 16 collocated links (RADWIN 2000 and/or WinLink 1000) |
| Monitored Hot Standby (MHS) | 1+1 with RADWIN 2000 link or WinLink 1000 link |

| Supported Bands | | |
|-------------------|--------------------------|----------------------------------------------|
| Band | Occupied Frequency Range | Radio Compliance |
| 4.9 GHz FCC/IC* | 4.940 - 4.990 | FCC 47CFR, Part 90, Subpart Y and IC RSS-111 |
| 5.8 GHz FCC/IC | 5.725 - 5.850 GHz | FCC 47CFR, Part 15, Subpart C and IC RSS-210 |
| 5.8 GHz MII China | 5.730 - 5.845 GHz | MIIT for 5.8 GHz |
| 5.9 GHz Universal | 5.730 - 5.950 GHz | |
| 5.8 GHz WPC India | 5.825 - 5.875 GHz | WPC GSR-38 |
| 5.4 GHz FCC | 5.480 - 5.715 GHz | FCC 47CFR, Part 15, Subpart E |
| 5.4 GHz IC | 5.480 - 5.715 GHz | IC RSS-210 |
| 5.4 GHz Universal | 5.490 - 5.710 GHz | |
| 5.3 GHz FCC/IC | 5.260 - 5.340 GHz | FCC 47CFR, Part 15, Subpart E and IC RSS-210 |
| 5.3 GHz Universal | 5.140 - 5.345 GHz | |
| 4.9 GHz Universal | 4.890 - 5.010 | |
| 2.4 GHz FCC/IC | 2.402 - 2.472 | FCC 47CFR, Part 15, Subpart C and IC RSS-210 |

* Factory Default

| Mechanical | |
|------------------------|---------------------------------------------------------------------------------------|
| Dimensions | 19.5(w) x 27.0(h) x 8.0(d) cm |
| Weight | 1.8 kg / 3.6 lbs |
| Power | |
| Power Feeding | Power provided over ODU-IDU cable |
| Power Consumption | <35W (IDU + ODU) |
| Environmental | |
| Operating Temperatures | -35°C - 60°C / -31°F – 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 | CFR47 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 |



Ordering Information

Part Number: RW-2049-0200

Description:

RADWIN 2000 C-Series ODU Connectorized for external antenna (2x N-type), supporting 2.3 and 2.4 GHz frequency bands

For external antennas, see the RADWIN Product Catalog.

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