



## RW-2960-0210

RADWIN RW-2960-0210 is a carrier-class radio supporting the 6.0GHz band. The radio is part of the RADWIN 2000 PDH Series which delivers 16 E1s/T1s and 10 Mbps Ethernet throughput at ranges of up to 120 km/75 miles.

The RADWIN 2000 PDH Series is designed to address carriers' cellular backhaul requirements, providing high-end performance, capacity and range never before seen in its price category.

RADWIN RW-2960-0210 is connectorized for use with external antennas.

### Product Highlights

- Up to 16 x E1s/T1s plus 10 Mbps Ethernet throughput
- Native TDM transport
- Long range – up to 120 km/75 miles
- Superior spectral efficiency
- Advanced MIMO, OFDM and Diversity technologies
- Robust and reliable to operate in tough conditions, extreme temperatures and non line-of-sight scenarios
- Ease of operation and maintenance

### Product Specifications

| Configuration                           |                                                                  |
|-----------------------------------------|------------------------------------------------------------------|
| <b>Architecture</b>                     | Outdoor Unit Connectorized for External Antenna                  |
| <b>IDU to ODU Interface</b>             | Outdoor CAT-5e cable; Maximum cable length: 100 m                |
| Radio                                   |                                                                  |
| <b>Capacity</b>                         | Up to 16 E1s/T1s and 10 Mbps full-duplex Ethernet net throughput |
| <b>Range</b>                            | Up to 120 km / 75 miles                                          |
| <b>Channel Bandwidth</b>                | 20 MHz                                                           |
| <b>Modulation</b>                       | 2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)                            |
| <b>Adaptive Modulation &amp; Coding</b> | Supported                                                        |
| <b>Automatic Channel Selection</b>      | Supported                                                        |
| <b>Diversity</b>                        | Supported                                                        |
| <b>Spectrum View</b>                    | Supported                                                        |
| <b>Max Tx Power</b>                     | 20 dBm                                                           |
| <b>Duplex Technology</b>                | TDD                                                              |
| <b>Error Correction</b>                 | FEC k = 1/2, 2/3, 3/4, 5/6                                       |
| <b>Encryption</b>                       | AES 128                                                          |
| <b>Supported Indoor Units</b>           | IDU-C Series (RW-72XX-2000)                                      |
| <b>Hub Site Synchronization (HSS)</b>   | Up to 16 collocated links (RADWIN 2000 and/or WinLink 1000)      |
| <b>Monitored Hot Standby (MHS)</b>      | 1+1 with RADWIN 2000 link or WinLink 1000 link                   |

| Supported Bands   |                          |                  |
|-------------------|--------------------------|------------------|
| Band              | Occupied Frequency Range | Radio Compliance |
| 6.0 GHz Universal | 5.795 - 6.050            |                  |

| <b>Mechanical</b>             |                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------|
| <b>Dimensions</b>             | 19.5(w) x 27.0(h) x 8.0(d) cm                                                         |
| <b>Weight</b>                 | 1.8 kg / 3.6 lbs                                                                      |
| <b>Power</b>                  |                                                                                       |
| <b>Power Feeding</b>          | Power provided over ODU-IDU cable                                                     |
| <b>Power Consumption</b>      | <35W (IDU + ODU)                                                                      |
| <b>Environmental</b>          |                                                                                       |
| <b>Operating Temperatures</b> | -35°C - 60°C / -31°F - 140°F                                                          |
| <b>Humidity</b>               | 100% condensing, IP67 (totally protected against dust and against immersion up to 1m) |
| <b>Safety</b>                 |                                                                                       |
| <b>FCC/IC (cTUVus)</b>        | UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22                |
| <b>ETSI</b>                   | EN/IEC 60950-1, EN/IEC 60950-22                                                       |
| <b>EMC</b>                    |                                                                                       |
| <b>FCC</b>                    | CFR47 Class B, Part15, Subpart B                                                      |
| <b>ETSI</b>                   | EN 300 386, EN 301 489-1, EN 301 489-4                                                |
| <b>CAN/CSA-CEI/IEC</b>        | CISPR 22-04 Class B                                                                   |
| <b>AS/NZS</b>                 | CISPR 22-2004 Class B                                                                 |

#### Ordering Information

**Part Number:** RW-2960-0210

**Description:** RADWIN 2000 PDH Series ODU Connectorized for external antenna (2x N-type), supporting 6.0 GHz band

For external antennas see the RADWIN Product Catalog.



Teleincom-PK  
 Authorized Distributor and  
 Service Center  
 Russia & CIS  
 T.: +7 (495) 231-21-20  
 E.: info@teleincom.ru  
 Web: www.radwin2000.ru