



RADWIN 2000 Wireless IP Solution

Carrier-Class, High-Capacity Sub-6GHz Solution for IP and WiMAX Backhaul

Product Highlights

- 50 Mbps full-duplex net throughput
- Superior OFDM and MIMO technologies
- Unparalleled performance
- Extended range
- Easy to install, simple to maintain
- Significant reduction in cost of ownership

The new RADWIN 2000 radio series delivers high capacity, extended range and carrier-class performance. RADWIN 2000 is the solution of choice for WiMAX operators and service providers in search of a reliable, scalable backhaul solution to give their business a true competitive edge in the global communications market.

At the ramp-up stage, where WiMAX operators deal with considerable investments in infrastructure and an emerging subscriber base, RADWIN 2000 offers unparalleled OPEX savings and significantly reduced cost of ownership. Supporting multiple bands in a single radio platform, RADWIN 2000 also ensures perfect performance in a wide range of environments and scenarios. With its easy

installation and maintenance, RADWIN 2000 grants operators the flexibility to quickly extend their networks and offer new services to subscribers.

The high-capacity radio system provides 50 Mbps full-duplex net throughput and a range of up to 120 km/75 miles in various sub-6GHz frequencies. Built on RADWIN's proprietary air interface, coupled with advanced built-in Diversity, MIMO and OFDM technologies, RADWIN 2000 delivers optimal performance and unequalled robustness for today's and tomorrow's networks.

RADWIN 2000 is best suited for a variety of Ethernet applications, including backhaul for WiMAX and IP networks, high-capacity data transport, and private networks.

Configuration	
Architecture	ODU: Outdoor Unit with Integrated Antenna or Connectorized for External Antenna IDU: Indoor Unit or PoE device with Ethernet interfaces
IDU to ODU Interface	Outdoor CAT-5e cable
Radio	
Capacity	50 Mbps (net throughput, full duplex)
Range	Up to 120 km / 75 miles
Frequency Bands	4.940 – 5.950 GHz
Channel Bandwidth	20 MHz
Modulation	2x2 MIMO-OFDM (BPSK/QPSK/16QAM/64QAM)
Adaptive Modulation & Coding	Supported
Automatic Channel Selection	Supported
Max Tx Power	25 dBm
Duplex Technology	TDD
Error Correction	FEC k = 1/2, 2/3, 3/4, 5/6
Encryption	AES 128
Ethernet Interface	
Number of Ethernet ports	2 in IDU; 1 in PoE device
Type	10/100BaseT with Auto-Negotiation (IEEE 802.3u)
Framing/Coding	IEEE 802.3
Line Impedance	100 Ω
VLAN Support	Transparent
Connector	RJ-45
Maximum Frame Size	2048 Bytes
Latency	3 msec (typical)
Management	
Management Application	RADWIN Manager
Protocol	SNMP and Telnet
Mechanics	
Dimensions	ODU with Integrated Antenna: 37.1(w) x 37.1(h) x 10.0(d) cm; 3.5 kg / 7 lbs ODU Connectorized: 19.0(w) x 27.0(h) x 7.0(d) cm; 1.8 kg / 3.6 lbs IDU: 43.6(w) x 4.4(h) x 21(d) cm; 1.5 kg / 3.3 lbs
Power	
Power Feeding	Dual feeding, -20 to -60 VDC (AC/DC converter is available)
Power Consumption	< 35 W (IDU+ODU)
Environmental	
Operating Temperatures	ODU: -35°C to +60°C / -31°F to +140°F IDU: 0°C to +50°C / 32°F to +122°F
Humidity	ODU: Up to 100% non-condensing, IP67 IDU: 90% non-condensing
Radio Regulations	
FCC	47CFR, Part 15, Subpart C
IC (Canada)	RSS-210
WPC (India)	GSR-38
MII (China)	5.8GHz Band Regulation
Safety	
FCC/IC (cTUVus)	UL 60950-1, CAN/CSA 60950-1 C22.2
ETSI	EN/IEC 60950-1
EMC	
FCC	CFR47 Class B, Part15, Subpart B
ETSI	EN 300 386 (2005), EN 301 489-4 (2002)
CAN/CSA-CEI/IEC	CISPR 22-04 Class B
AS/NZS	CISPR 22-2004 Class B

RADWIN 2000 with TDM interfaces will be available in the first half of 2009.



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