

RADWIN 2000 Alpha Point-to-Point Series

350Mbps Carrier Class Solution

Delivering up to 350Mbps in the 5 GHz band, RADWIN 2000 Alpha Series is part of the RADWIN 2000 PtP portfolio of carrier-grade solutions.

Compact and durable, RADWIN 2000 Alpha guarantees exceptional radio performance at the most competitive industry price. Alpha also features RADWIN's unique and field proven air-interface, ensuring stable and reliable operation in the unlicensed spectrum.

RADWIN 2000 Alpha is the optimal solution for high-speed wireless enterprise access and robust backhaul as well as video surveillance backhaul.

RADWIN 2000 Alpha Highlights

- Available in 3 models:
50Mbps | 200Mbps | 350Mbps
- Operational in 4.9-6.0 GHz
- Up to 120 km / 75 miles range
- Inter and Intra TDD synchronization
- IP 66 / IP 67

Applications

- Wireless enterprise access
- Video surveillance backhaul
- Leased lines replacement
- Building to building connectivity

RADWIN 2000 Alpha Benefits

- Pay as you grow capacity - 50Mbps upgradable to 200 Mbps via license key
- Guaranteed high capacity in short packets (140K PPS)
- Multiple antenna configurations:
 - **Alpha EMB** - connectorized outdoor unit with a 16dBi embedded antenna. 3rd party antennas can be used to extend the range when needed.
 - **Alpha INT** - outdoor unit with a 22dBi integrated antenna
- TDD synchronization supporting multiple PtP co-location installations
- Reliable link in congested spectrum and tough path conditions
- Unparalleled performance at lowest TCO



RADWIN 2000 Alpha INT

RADWIN 2000 Alpha EMB

Product Specifications

Configuration		
Architecture	Outdoor connectorized unit with embedded antenna	Outdoor unit with integrated antenna
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 10/100/1000BaseT	
Radio		
Capacity	3 models: 50Mbps (software upgradable to 200Mbps) 200Mbps 350Mbps	
Range	Up to 120 km / 75 miles	
Frequency Band	4.9- 6.0 GHz	
Channel Bandwidth	Configurable: 10, 20, 40, 80 MHz; Dynamic Channel BW selection (20/40/80 MHz)	
Modulation	MIMO-OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)	
Adaptive Modulation & Coding	Supported	
Auto selection MIMO / Diversity	Supported	
Max Tx Power	24 dBm	
Embedded Antenna	16dBi	22dBi
Duplex Technology	TDD	
Regulation	ETSI, WPC, MII, NCC, UNI	FCC, IC, ETSI, WPC, MII, NCC, UNI
Encryption	AES 128	
Supported Indoor Units	RADWIN PoE device	
Uplink / Downlink Allocation	Configurable: Symmetric or Asymmetric	
QoS	Packet classification to 4 priority queues according to 802.1P or Diffserv	
VLAN Support	802.1Q, QinQ, 4094 VLANs	
ODU Management	IPv4; IPv6; SNMP v1; HTTP using web browser	
Mechanical		
ODU Dimensions (w/h/d)	18.2 cm x 18.2 cm x 6 cm	32.5 cm x 32.5 cm x 6.4 cm / 12.8" x 12.8" x 2.5"
ODU Weight	0.5 kg / 1.10 lbs	2 kg / 4.4 lbs
Power		
Power Consumption	<12W	
Environmental		
Operating Temperatures	-35°C to 60°C / -31°F to 140°F	
Humidity	100% condensing	
Durability	IP66	IP67
Safety		
US/CAN (cTUVus)	UL 60950-1, UL 60950-22, CAN/CSA C22.2 60950-1, CAN/CSA C22.2 60950-22	
CE/IEC	EN/IEC 60950-1, EN/IEC 60950-22	
EMC		
FCC	47 CFR, Part15, Subpart B, Class B	
ETSI	EN 300 386, EN 301 489-1, EN 301 489-4	
CAN/CSA-CEI/IEC	CISPR 22-2010 Class B	