



RADWIN 2000 Alpha Point-to-Point Series

350 Mbps Carrier Class Solution

Delivering up to 350 Mbps 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:
50 Mbps | 200 Mbps | 350 Mbps
- Operational in 4.9-6.0 GHz
- Up to 120 km / 75 miles range
- Inter and Intra TDD synchronization¹
- IP-66

Applications

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

RADWIN 2000 Alpha Benefits

- Pay as you grow capacity - 50 Mbps upgradable to 200 Mbps via license key
- Guaranteed high capacity in short packets (140K PPS)
- Minimize stock inventory - single unit supports 3 antenna configurations:
 - Embedded antenna - 16dBi
 - Slide-on TurboGain antenna - 22dBi
 - Third-party antenna
- TDD¹ synchronization supporting multiple PtP co-location installations
- Reliable link in congested spectrum and tough path conditions
- Unparalleled performance at lowest TCO



TurboGain antenna

RADWIN 2000 Alpha

¹ Available in H2 2018 via software upgrade

Product Specifications

Configuration	
Architecture	Outdoor Unit with an embedded antenna and connectorized for 3rd party antenna (2 x SMA)
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 10/100/1000BaseT
Radio	
Capacity	3 models: 50 Mbps (software upgradable to 200 Mbps) 200 Mbps 350 Mbps
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
Duplex Technology	TDD
Regulation	ETSI, WPC, MII, UNI NCC
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; SNMP v1; HTTP using web browser
Mechanical	
ODU Dimensions	18.2(w) cm x 18.2(h) cm x 6.0(d) cm
ODU Weight	0.5 kg / 1.10 lbs
Power	
Power Consumption	<12W
Environmental	
Operating Temperatures	-35°C to 60°C / -31°F to 140°F
Humidity	100% condensing, IP66
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