

# RADWIN 2000 Alpha Point-to-Point Series

## 500 Mbps Carrier Class Solution

Delivering up to 500 Mbps, RADWIN 2000 Alpha is part of the RADWIN 2000 PtP portfolio of carrier-grade solutions.

Compact and durable, RADWIN 2000 Alpha guarantees exceptional radio performance at a 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 for a variety of applications such as video surveillance.

### RADWIN 2000 Alpha Highlights

- » 500Mbps PtP radio unit
- » Integrated or connectorized
- » 3.4-3.8, 4.9-6.0 GHz
- » Up to 80 km / 50 miles
- » Built-in GPS<sup>1</sup>
- » Dying gasp<sup>1</sup>
- » AES 128/ 256<sup>1,2</sup>
- » Dynamic channel bandwidth
- » Operable as SU PRO
- » Highly durable - IP 67

### Applications

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

### RADWIN 2000 Alpha Benefits

- » Guaranteed high capacity in short packets (350K PPS)
- » Built-in GPS: Support co-location of multiple radios while saving upon external equipment costs for TDD synchronization and avoid one point of failure.
- » Dying gasp: Send a message upon local power failure to prevent unnecessary maintenance efforts
- » Reliable link in congested spectrum and tough path conditions
- » Unparalleled performance at lowest TCO



RADWIN 2000 Alpha Integrated

RADWIN 2000 Alpha Connectorized

Note 1: Applicable for 4.9-6.0 GHz only

Note 2: Available in H2/2021 via a software upgrade.

## Product Specifications

Configuration	Alpha Connectorized	Alpha Integrated
Architecture	Outdoor connectorized unit	Outdoor unit with integrated antenna
PoE to ODU Interface	Outdoor CAT-5e; Maximum cable length: 10/100/1000BaseT	
<b>Radio</b>		
Capacity	500Mbps	
Range	Up to 80 km / 50 miles	Up to 40 km / 25 miles
Frequency Band	5.x : 4.9- 6.0 GHz	5.x: 4.9-6.0 GHz , 3.x: 3.4-3.8 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	26dBm	5.x GHz: 26dBm , 3.x GHz: 25dBm
Antenna	N-type connectors for external antenna	5.x GHz: 22dBi, 3.x GHz: 19dBi
Duplex Technology	TDD	
Regulation	5.x GHz: ETSI, WPC, MII, NCC, UNI	5.x GHz : FCC, IC, ETSI, WPC, MII, UNI 3.x GHz : ETSI, UNI
Encryption	AES 128/ 256 <sup>1,2</sup>	
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, SNMP v3; HTTP, HTTPS using web browser	
<b>Mechanical</b>		
ODU Dimensions (w/h/d)	19.5 x 12.5 x 4.0 cm / 7.7" x 4.9" x 1.6"	32.5 x 32.5 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
<b>Power</b>		
Power Consumption	<13W	
<b>Environmental</b>		
Operating Temperatures	-35°C to 60°C / -31°F to 140°F	
Humidity	100% condensing	
Durability	IP67	

# RADWIN

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