Z500 Dual-band 802.11ac AP

Anywhere

INTELLIGENT CONNECTIVITY

Z500 is an industrial-grade dual-band 2x2 MIMO 802.11ac wireless access point (AP), designed for high user density deployments and backhaul application.

With an integrated high-gain sector antenna, the Z500 is specially optimized for Wi-Fi deployments. It is ideal for industrial connectivity applications such as last mile or point-to-point long distance wireless backhaul using an external 5GHz antenna. In addition to efficient network management, access policy implementation is made easy by the flexibility of employing multiple SSIDs to control user access to the network.
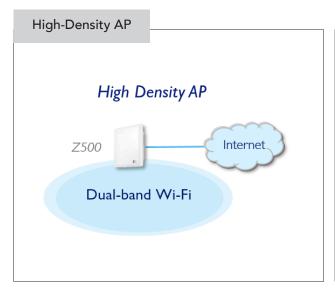
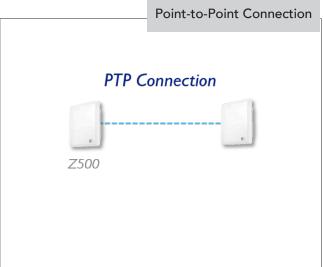| High throughput access and PTP connection	• Aggregate 1,167 Mbps data rate • IP67 weatherproof, 6kV surge protection
802.11ac	• Dual-band dual-concurrent MIMO • Built-in 2.4 and external 5 GHz antennas

Deployment Architecture

High-Density AP

High Density AP

Z500   Internet

Dual-band Wi-Fi

Point-to-Point Connection

PTP Connection

Z500

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Specifications

Wireless

Operating Frequency (Country-dependent)	2.400 – 2.4835 GHz 5.150 - 5.350 GHz 5.470 - 5.850 GHz Dual-band dual-concurrent
Modulation Techniques	OFDM: BPSK, QPSK,16QAM, 64QAM, 256QAM DSSS: DBPSK, DQPSK, CCK
No. of Spatial Stream	2×2: 2 MIMO, 20/40/80 MHz Channel

Receive Sensitivity		
	802.11b	-99 dBm (1 Mbps); -91 dBm (11 Mbps)
	802.11g	-91 dBm (6 Mbps); -77 dBm (54 Mbps)
	802.11n	-91 dBm (HT20); -88 dBm (HT40)
	802.11a	-93 dBm (6 Mbps); -77 dBm (54 Mbps)
	802.11a/n	-91 dBm (HT20); -88 dBm (HT40)
	802.11ac	-91 dBm (VHT20); -88 dBm (VHT40); -85 dBm (VHT80)

Transmit Power (Country-dependent)	27 dBm (Max.)
No. of SSIDs supported	32 (Max.; 16 per Radio)

Antenna

Connected to	Radio 0	Radio 1	
Type	Built-in 2.4 GHz	External 5 GHz	
Gain	12 dBi		Optional Antennas: 5 GHz 19 dBi Panel for Backhaul; More Options on Request
Polarization	Vertical & Horizontal		
Horizontal Beamwidth	75°		
Vertical Beandwidth	32°		
VSWR	1.5 (Max.)		
Front-to-back Ratio	-23 dB (Min.)		
Isolation	24 dB (Min.)		

Networking

Redundancy	STP
Features	DHCP Client/Server, NAT, PPPoE Client, VLAN

Security

Authentication	Open System, Shared Key, WPA/WPA-PSK, WPA2/WPA2-PSK, 802.1x(EAP-PEAP/TLS/TTLS/SIM/AKA), MAC address, RADIUS support, SSID suppression

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Encryption Protocol	TKIP, 128-bit AES

Management

Built-in Web User Interface	SmartMoment
Support	Remote Firmware Upgrade, SNMP v1/v2c, MIB support

Hardware

No. of Radio	1 × 2.4 GHz Radio + 1 × 5 GHz Radio
Network Interface	1×GE & PoE Port
LED	RUN; LAN; RADIO 0; RADIO 1
Power Supply	802.3at PoE Injector
Power Consumption	25 W (Max.)
Antenna Movement	0˚ to 30˚ Down-tilt (or 0˚ to 30˚ Up-tilt by Reversed Mounting)
MTBF	350,000 hours (50˚C)

Physical Characteristics

Dimensions	270×270×80 mm (w/o Mounting)
Weight	1.86 kg (Net w/o Mounting); 2.39 kg (Net w/ Mounting); 2.66 kg (Gross)
Mounting	Pole Mounting (ø40 to ø52 mm)

Environmental

Temperature	-40˚C to 65˚C (Operating)
Humidity	5% to 95 % Non-condensing
Elevations	86 to 106 kPa
Wind Loading	265 km/h (Max.)
Weatherproof	IP67, 6 kV Common Mode Surge Protection

Certification

FCC, OFCA

Warranty

First year free limited hardware warranty and firmware upgrade

Ordering Information

Part Number	Description
GE.AP-Z500-00	Z500 Dual-band 802.11ac AP

Visit www.anywherenetworks.com or contact **sales@anywherenetworks.com** for more details.

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