Z500G Dual-band 802.11ac AP

Anywhere
INTELLIGENT CONNECTIVITY

Z500G 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 Z500G 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 internal 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.

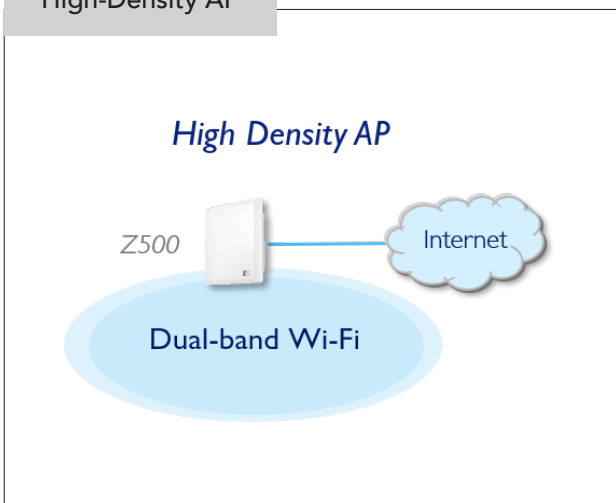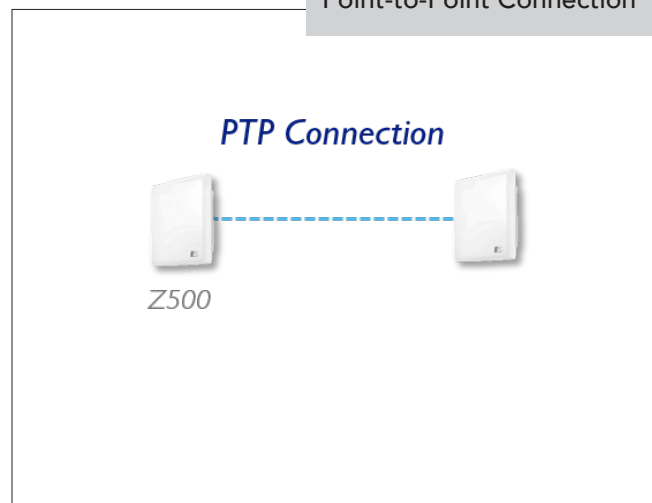| High throughput access and PTP connection	• Aggregate 1,167 Mbps data rate • IP67 weatherproof, 6kV surge protection
802.11ac	• Dual-band dual-concurrent MIMO • Built-in 5 and external 2.4 GHz antennas

Deployment Architecture

High-Density AP

Point-to-Point Connection

High Density AP

Z500

Internet

Dual-band Wi-Fi

PTP Connection

Z500

Z500G Dual-band 802.11ac AP

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	External 2.4 GHz	Built-in 5 GHz
Gain	Optional Antennas: 2.4 GHz 5 dBi Omni Antenna for WiFi service	19 dBi
Polarization		Vertical & Horizontal
Horizontal Beamwidth		17°
Vertical Beandwidth		17°
VSWR		1.8 (Max.)
Front-to-back Ratio		-25 dB (Min.)
Isolation		35 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

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
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-Z500G-00	Z500G Dual-band 802.11ac AP

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

Anywhere