

Z500G Dual-band 802.11ac AP



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

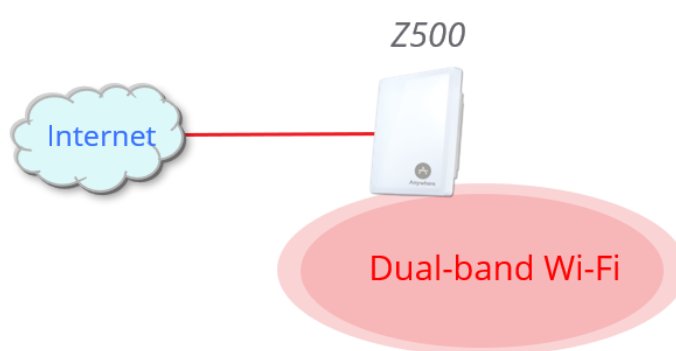
- Dual-band dual-concurrent MIMO
- Built-in 5 GHz and external 2.4 GHz antennas

Deployment Architecture

PTP Connection



High Density AP



Z500G Dual-band 802.11ac AP Specifications

Wireless		
Operating Frequency ¹	2.400 - 2.4835 GHz 5.150 - 5.350 GHz 5.470 - 5.850 GHz Dual-band dual-concurrent	
Modulation	OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM DSSS: DBPSK, DQPSK, CCK	
No. of Spatial Stream	2×2: 2 MIMO	
Channel Bandwidth ¹	20/40/80 MHz Channel	
Receive Sensitivity	802.11b	-99 dBm (1 Mbps); -91 dBm (11Mbps)
	802.11g	-91 dBm (6 Mbps); -77 dBm (54Mbps)
	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 ¹	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 Wi-Fi service	19 dBi
Polarization		Vertical & Horizontal
Horizontal Beamwidth		17°
Vertical Beamwidth		17°
VSWR		1.8 (Max.)
Front-to-back Ratio		-25 dB (Min.)
Isolation		35 dB (Min.)
Network		
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
Encryption Protocol	TKIP, 128-bit AES
Management	
User Interface	SmartMoment
Support	Remote Firmware Upgrade, SNMP v1/v2c ² , MIB support ²
Hardware	
No. of Radio	1 × 2.4 GHz Radio + 1 × 5 GHz Radio
Network Interface	1 x GE & PoE Port
LED	RUN; LAN; RADIO 0; RADIO 1
Power Supply	802.3at PoE Injector
Power Consumption	25 W (Max.)
Antenna Movement	±30° Up/Down-tilt
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	
Standard Warranty	
First year free limited hardware warranty and firmware upgrade.	
Ordering Information	
Part Number	GE.AP-Z500G-00
Description	Z500G Dual-band 802.11ac AP

¹operating frequency, transmit power and channel bandwidth vary by country/region settings

²available in the future updates

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