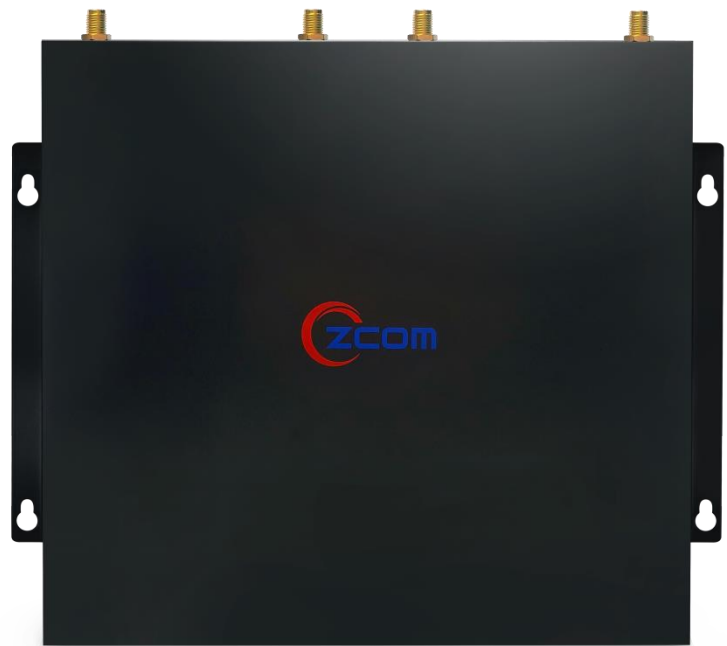




AG250-A03

802.11ax, 2x2 Dual-band Concurrent
5G NR Indoor Gateway

Product Specification





Product Specification

Ethernet Interface	
Number of Ports	2
Speed	10/100/1000/2500 Mbps
Connector	8-pin RJ45

Wi-Fi (optional)		
IEEE Standards	IEEE 802.11 a/b/g/n/ac/ax	
Physical Data Rates Supported Rates	2.4Ghz 802.11axa: 574Mbps 5Ghz 802.11axn: 1200 Mbps	
Bandwidth Channelization	2.4GHz: 20/40 MHz	5GHz: 20/40/80 MHz
MIMO	MU-MIMO	
Radio Chains and Streams	2.4GHz: 2x2:2	5GHz: 2x2:2
Frequency Bands and Operating Channels	Taiwan	US
	2.412 – 2.462 GHz; 11 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz; 12 channels 5.745 – 5.825 GHz; 5 channels	2.412 – 2.462 GHz; 11 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz; 12 channels 5.745 – 5.825 GHz; 5 channels
	EU	China
	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.700 GHz; 11 channels	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.745 – 5.825 GHz; 5 channels
	Japan	India
	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz; 12 channels	2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.720 GHz; 12 channels 5.745 – 5.865 GHz; 7 channels
*Operating Channel depends on configured regulatory domain.		
Spread Spectrum and Modulation (Typical)	OFDMA / OFDM	



PERFORMANCE TABLE				
	2.4GHz TX TARGET POWER (PER CHAIN)		5GHz TX TARGET POWER (PER CHAIN)	
MU HE40	MCS0	23dBm±2dBm	MCS0	23dBm±2dBm
	MCS11	16dBm±2dBm	MCS11	15dBm±2dBm
MU VHT40	MCS9	20dBm±2dBm	MCS9	17dBm±2dBm
	2.4GHz RECEIVER SENSITIVITY		5GHz RECEIVER SENSITIVITY	
HE20	MCS0	<-95dBm	MCS0	<-95dBm
	MCS11	<-67dBm	MCS11	<-66dBm
HE40	MCS0	<-93dBm	MCS0	<-92dBm
	MCS11	<-64dBm	MCS11	<-63dBm
HE80			MCS0	<-90dBm
			MCS11	<-60dBm
CAPACITY				
Client Capacity	512			
Antenna Type	External SMA			
Antenna Gain (max)	2.4GHz : 2.5dBi		5GHz : 5dBi	
EIRP	2.4GHz : 28.5 dBm		5GHz : 31dBm	
Frequency Bands	ISM (2.4-2.484GHz) U-NII-1 (5.15-5.25GHz) U-NII-2A (5.25-5.35GHz) U-NII-2C (5.47-5.725GHz) U-NII-3 (5.725-5.85GHz)			

5G NR	
Antenna Type	External SMA x4
Antenna Gain (max)	3dBi
Transmit Power	23.5 dBm ±2 dB for WCDMA bands 23 dBm ±2 dB for LTE bands 23 dBm ±2 dB for 5G NR bands
Frequency Bands	5G NR n1*/n2*/n3*/n5*/n7*/n8*/n12*/n20*/n25*/n28*/n41/n48*/n66*/n71*/n77/n78/n79 LTE B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/B20/B25/B26/B28/B29/B30/B32/B34/B38/ B39/B40/B41/B42/B46/B48/B66/B71
GNSS	GPS/ GLONASS



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INTERFACE		
Ethernet	WAN Port: RJ45: 1x 10/100/1000/2500Mbps LAN Port: RJ45: 1x 10/100/1000/2500Mbps	
Other Interfaces	1x Reset Button 1x USB 1x SIM Slot (Micro SIM) 2 x SMA connectors (for Wi-Fi) (optional)	
Power	Power Supply	
	DC Input: 12V/1A	Optional : WAN Port: PD Input (802.3bt) 48V
	Consumption: ≤ 30W	
Environmental	Storage	Operating
	Temperature: -40~ 70 °C Humidity: 5 ~ 95%	Temperature: -40 ~ 55 °C Humidity: 5 ~ 95% (non-condensing)
Compliance Standards	REACH & RoHS IEEE standards : IEEE 802.11a/b/g/n/ac/ax IEEE 802.11d, e, h, i, j, k, r, u, v time stamp, w, and z standards Multimedia : Wi-Fi multimedia (WMM) *Above partial functions should be configured by Z-COM Wireless LAN Controllers (WLC)	

MECHANICAL SPECIFICATION	
Mounting details	wall
Dimension	22 (L) × 18.5 (W) × 3 (H) cm
Anti-static Grade	IEC61000-4-2(Criteria B) Air: ±8kV Contact: ±4kV
GREEN	RoHS compliant
IP Rate	IP41
Warranty	1 year

