










# AG260

## Industrial 5G NR Cellular Gateway With 802.11ax, 2x2 Dual-band Concurrent

### Product Specification

 <b>802.11ax Dual Band</b> Wi-Fi Standard	 <b>GPS</b> With built-in GPS/GLONASS positioning functionality	 <b>1774 Mbps</b> 2.4GHz : 574Mbps 5GHz : 1200Mbps
 <b>5G NR</b> EIRP 23dBm for 5G NR-backhaul	 <b>MU-MIMO</b> Connect to More Devices Simultaneously	 <b>Target wake time</b> Enhance battery life for mobile and IoT devices
 <b>Support for IPv6</b> Improved routing efficiency, and optimization	 <b>M12 X-coded</b> Effectively avoids EMI interference	 <b>Harsh environments</b> The device is suitable for a wide temperature range from -25°C to 70°C



Wi-Fi				
IEEE Standards	IEEE 802.11 a/b/g/n/ac/ax			
Physical Data Rates Supported Rates	2.4Ghz 802.11axg: 574Mbps 5Ghz 802.11axa: 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
SENSITIVITY	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



Interface		
Ethernet: Either M12 or RJ45	M12 type	RJ45 type (optional: customization)
	WAN: 1 x 10/100/1000/1000 Mbps LAN: 4 x 10/100/1000/1000 Mbps	WAN: 1 x 10/100/1000/1000 Mbps LAN: 4 x 10/100/1000/1000 Mbps
Other Interfaces	1 x SFP+ 1 x Reset Button 1 x Micro USB Console 1 x Terminal Block for DC Jack 1 x SD card 2 x SIM Slots (Micro SIM) 2 x SMA connectors (For Wi-Fi) 4 x SMA connectors (For 5G NR) LED indicators	

LED definitions			
Function	Name	Color	Behavior
System Status	PWR	Green	Off: Power off Solid: Power On
	SYS	Red	Off: Normal operation Solid: Initializing Blinking: The system is upgrading (Don't touch nor plug off the power)
	SD	Green	Off: SD card off Solid: SD Card is used.
Wi-Fi Status	2G	Green	Off: Wi-Fi 2.4GHz Radio Off On: Wi-Fi 2.4GHz Radio on
	5G	Green	Off: Wi-Fi 5GHz Radio Off On: Wi-Fi 5GHz Radio on
Cellular Status	Cellular	Green	Off: Cellular Radio Off Solid: Cellular Radio On
	SIM1	Green	Off: SIM1 is not used. Solid: SIM1 is used.
Cellular Signal Strength	SIM2	Green	Off: SIM2 is not used. Solid: SIM2 is used.
	H	Green	3 LEDs Solid (H+M+L): Signal Strong 2 LEDs Solid (M+L): Signal Moderate 1 LED Solid (L): Signal Weak 1 LED Blinking (L): Signal very weak Off: No Signal
	M	Green	
	L	Green	
L	Green		

Power	Power Supply	Consumption
	DC Input: 9V-57V terminal blocks	≤36W (daughter board excluded)



5G NR		
Antenna Type	External SMA x4	
Antenna Gain (max)	3dBi	
Transmit Power	23.5 dBm $\pm$ 2 dB for WCDMA bands 23 dBm $\pm$ 2 dB for LTE bands 23 dBm $\pm$ 2 dB for 5G NR bands	
Frequency Bands	5G NR <b>n1*/n2*/n3*/n5*/n7*/n8*/n12*/n20*/n25*/n28*/n41/n48*/n66*/n71*/n77/n78/n79</b> 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 (subject to compliance regulations)	
GNSS	GPS/ GLONASS	
Environmental	Storage	Operating
	Temperature: -40~70°C Humidity: 5-95%	Temperature: -25~70°C Humidity: 5-95%
Daughter Board -Extra Functions (Optional )		
Functions	Will support: <ul style="list-style-type: none"><li>• 802.3bt PoE in</li><li>• RS485</li><li>• USB 2.0</li><li>• BT 5.2</li><li>• Tri-Band (supports Wi-Fi 6E 4x4 11ax module)</li></ul>	
MECHANICAL SPECIFICATION		
Mounting details	Wall –mounting/ DIN-RAIL	
Dimension	L215 x W118.5 x H60 mm	
Anti-static Grade	IEC61000-4-2(Criteria B) Air: $\pm$ 8kV Contact: $\pm$ 4kV	
GREEN	RoHS compliant; WEEE	
Warranty	1 year	
Compliance Standards	NCC/ BSMI EN 50155; EN50121-1/4 EN55032 & EN55035 EN 45545-2 <b>IEEE standards:</b> IEEE 802.11a/b/g/n/ac/ax	

