

MX-AB150-H1

Wi-Fi 6 module

802.11ax access point board



Product Specifications

Chipset	Qualcomm IPQ6010	
Memory	512MB DDR4 32MB NOR Flash 256MB NAND Flash	
Wireless Standards	IEEE 802.11 a, b, g, n, ac, ax	
Radio Chains	2.4GHz: 2x2:2	5GHz: 2x2:2
Physical Data Rates	802.11ax (2.4GHz): 573.5Mbps	802.11ax (5GHz): 1200Mbps
Bandwidth	2.4GHz: 20/40 MHz	5GHz: 20/40/80 MHz
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.	
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) OFDMA (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM)	
Max. Transmit Power	2.4GHz	5GHz
	23dBm (Per Chain)	23dBm (Per Chain)
	*The maximum power setting will vary by channel and according to individual country regulations.	

Product Specifications

Receive Sensitivity	-82dBm (Min.)	
	2.4GHz	5GHz
	HT20: -82dBm/HT40: -79dBm	VHT20: -82dBm/ VHT40: -79dBm/ VHT80: -76dBm
Interface	2x RJ45 support 10/100/1000Mbps/2.5Gbps 1 x USB 3.0 Port (Storage and Console Switch by SW) 1 x Reset button / 1 x LED 1xPCI Express 3.0, M.2 E-key	
Environmental	Storage	Operating
	Temperature: -45 – 70 °C Humidity: 5 – 95%	Temperature: -45 – 55 °C Humidity: 5 – 95% (non-condensing)
Indicator	White (color) Steady: Connected to the Internet. Blinking: Can't connect to the Internet.	
Power	Power Consumption	Power Input
	≤ 18W	DC12V 1.5A
Bluetooth	Version	Frequency
	5.0	2400 – 2480MHz
Compliance Standards	IEC/EN 62368-1 EN55032 & EN55024 WEEE & 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) Security: Open System 802.1x WPA-PSK/WPA2-PSK WPA-Enterprise/WPA2-Enterprise/WPA3 Extensible Authentication Protocol (EAP) types: EAP-Transport Layer Security (TLS) EAP-Tunneled TLS (TTLS) Protected EAP (PEAP) EAP-Subscriber Identity Module (SIM)	