

Nanjing MAXON O.E. TECH. CO., LTD

d: 6/F, Building A3, Zidong International Creative Park, Zidong Road, Qixia District, Nanjing, China.

MX-650 802.11ax Motherboard

Description

Maxon's MX-650 802.11ax Motherboard has the Qualcomm® IPQ6010 chip and supports IEEE 802.11 a, b, g, n, ac, ax standard protocol. It can work in temperatures of -45 ~ 70 °C (-49 ~ 158°F).



Specification

CHIP	Qualcomm IPQ6010	
STORAGE	512MB DDR4 32MB NOR Flash 256MB NAND Flash	
PROTOCOL	IEEE 802.11 a, b, g, n, ac, ax	
SPATIAL FLOW	2.4GHz: 2x2:2	5GHz: 2x2:2
RATE	802.11ax (2.4GHz): 573.5Mbps	802.11ax (5GHz): 1200Mbps
BANDWIDTH	2.4GHz: 20/40 MHz	5GHz: 20/40/80 MHz

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Nanjing MAXON O.E. TECH. CO., LTD

TEL: 86-25-86380932

WEB: www.mxcomm.cn

E-MAIL: info@maxonc.com

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COUNTRIES AND REGIONS FREQUENCY RANGE AND WORKING CHANNEL	Taiwan, CN 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	USA 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 2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.500 – 5.700 GHz; 11 channels	China 2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.745 – 5.825 GHz; 5 channels
	Japan 2.412 – 2.472 GHz; 13 channels 5.180 – 5.320 GHz; 8 channels 5.745 – 5.825 GHz; 5 channels	India 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
	*The working channel depends on the 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)	
MAXIMUM OUTPUT POWER	2.4GHz 23dBm (Single Chain)	5GHz 23dBm (Single Chain)
	*Maximum power settings are varied by channel and Country/Region's regulations.	
SENSITIVITY	-82dBm (Min.)	
	2.4GHz HT20: -82dBm/HT40: -79dBm	5GHz VHT20: -82dBm/ VHT40: -79dBm/ VHT80: -76dBm

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CONNECTOR	2xRJ45 supports 10/100/1000Mbps/2.5Gbps 1xUSB 3.0 port (software storage and console switch) 1xReset button / 1 x LED 1xPCI Express 3.0, M.2 E-key	
ENVIRONMENTAL REQUIREMENTS	Storage Temperature: -45 ~ 70 °C/-49 ~ 158°F Humidity: 5 ~ 95%	Operation Temperature: -45 ~ 55 °C/-49 ~ 131°F Humidity: 5 ~ 95% (non-condensing)
INDICATOR	white (color) Stable: Connected to the Internet. Blinking: Unable to connect to the Internet.	
POWER SUPPLY	Power consumption ≤ 18W	Power input DC12V 1.5A
BLUETOOTH	Version 5.0	Frequency 2400 – 2480MHz
COMPLIANCE STANDARDS	IEC/EN 62368-1 EN55032 & EN55024 WEEE & RoHS IEEE: 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) Safety: open system 802.1x WPA-PSK/WPA2-PSK WPA-Enterprise/WPA2-Enterprise/WPA3 Extensible Authentication Protocol (EAP) type: EAP-Transport Layer Security (TLS) EAP-Tunneled TLS (TTLS) Protected EAP (PEAP) EAP-Subscriber Identity Module (SIM)	

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