

MX6924 F5 802.11ax Embedded Wireless modules

Description

MX6924 F5 802.11ax Embedded Wireless modules is an embedded wireless module that adopts M.2 E-key and supports PCI Express 3.0 protocol. It adopts Qualcomm® 802.11ax Wi-Fi technology, supports the 5180-5850GHz frequency band, has AP and STA functions with 4x4 MIMO and 4 spatial streams, suitable for applications of 5GHz IEEE802.11a/n/ac/ax. It is equipped with a dynamic frequency selection (DFS) function which has higher transmission efficiency than the previous.



Specification

TYPE	Wireless Module
CHIP	QCN9024
IEEE STANDARD	IEEE 802.11ax
CONNECTOR	PCI Express 3.0, M.2 E-key
WORKING VOLTAGE	3.3V
FREQUENCY RANGE	5180~5320GHz 5745~5825GHz
MODULATION TECHNOLOGY	802.11n: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) 802.11ax: OFDMA (BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM)
POWER (PER CHAIN)	802.11ax: Max. 24dBm
POWER CONSUMPTION	≅ 15W
RECEIVING SENSITIVITY	11ax: HE20 MCS0 <-95dBm / MCS11 <-62dBm HE40 MCS0 <-89dBm / MCS11 <-60dBm HE80 MCS0 <-86dBm / MCS11 <-56dBm HE160 MCS0 <-87dBm / MCS9 <-64dBm

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

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

ANTENNA CONNECTOR	4 x U.FL
OPERATING ENVIRONMENT	Temperature: -20°C to 70°C/-4 ~ 158°F Humidity: 95% (non-condensing)
STORAGE ENVIRONMENT	Temperature: -40°C to 90°C/-40 ~ 194°F Humidity: 90% (non-condensing)
CERTIFICATION	RoHS/REACH
WEIGHT	18g
DIMENSIONS (W*H*D)	55.9 x 52.8 x 8.5 mm (±0.1 mm)

Radio Frequency Parameters

	RATE	TRANSMIT POWER (PER CHAIN)	TOLERANCE	RECEIVE SENSITIVITY	TOLERANCE
802.11a	6Mbps	24dBm	±2dB	-95dBm	±2dB
	9Mbps	24dBm	±2dB	-93dBm	±2dB
	12Mbps	24dBm	±2dB	-90dBm	±2dB
	18Mbps	24dBm	±2dB	-88dBm	±2dB
	24Mbps	23dBm	±2dB	-85dBm	±2dB
	36Mbps	22dBm	±2dB	-83dBm	±2dB
	48Mbps	21dBm	±2dB	-80dBm	±2dB
	54Mbps	20dBm	±2dB	-78dBm	±2dB
802.11n/ac VHT20	MCS0	23dBm	±2dB	-94dBm	±2dB
	MCS1	23dBm	±2dB	-92dBm	±2dB
	MCS2	23dBm	±2dB	-89dBm	±2dB
	MCS3	23dBm	±2dB	-87dBm	±2dB
	MCS4	23dBm	±2dB	-85dBm	±2dB
	MCS5	22dBm	±2dB	-83dBm	±2dB
	MCS6	21dBm	±2dB	-80dBm	±2dB
	MCS7	20dBm	±2dB	-77dBm	±2dB
	MCS8	18dBm	±2dB	-75dBm	±2dB
	MCS9	17dBm	±2dB	-72dBm	±2dB

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	RATE	TRANSMIT POWER (PER CHAIN)	TOLERANCE	RECEIVE SENSITIVITY	TOLERANCE
802.11n/ac VHT40	MCS0	23dBm	±2dB	-92dBm	±2dB
	MCS1	23dBm	±2dB	-90dBm	±2dB
	MCS2	23dBm	±2dB	-88dBm	±2dB
	MCS3	23dBm	±2dB	-85dBm	±2dB
	MCS4	23dBm	±2dB	-82dBm	±2dB
	MCS5	22dBm	±2dB	-79dBm	±2dB
	MCS6	21dBm	±2dB	-76dBm	±2dB
	MCS7	20dBm	±2dB	-73dBm	±2dB
	MCS8	19dBm	±2dB	-70dBm	±2dB
	MCS9	18dBm	±2dB	-67dBm	±2dB
802.11ac VHT80	MCS0	23dBm	±2dB	-87dBm	±2dB
	MCS1	23dBm	±2dB	-85dBm	±2dB
	MCS2	23dBm	±2dB	-83dBm	±2dB
	MCS3	23dBm	±2dB	-80dBm	±2dB
	MCS4	23dBm	±2dB	-78dBm	±2dB
	MCS5	22dBm	±2dB	-75dBm	±2dB
	MCS6	21dBm	±2dB	-73dBm	±2dB
	MCS7	20dBm	±2dB	-70dBm	±2dB
	MCS8	18dBm	±2dB	-67dBm	±2dB
	MCS9	18dBm	±2dB	-64dBm	±2dB
802.11ac VHT160	MCS0	23dBm	±2dB	-87dBm	±2dB
	MCS1	23dBm	±2dB	-85dBm	±2dB
	MCS2	23dBm	±2dB	-83dBm	±2dB
	MCS3	23dBm	±2dB	-80dBm	±2dB
	MCS4	23dBm	±2dB	-78dBm	±2dB
	MCS5	21dBm	±2dB	-75dBm	±2dB
	MCS6	21dBm	±2dB	-73dBm	±2dB
	MCS7	20dBm	±2dB	-70dBm	±2dB
	MCS8	18dBm	±2dB	-67dBm	±2dB
	MCS9	18dBm	±2dB	-64dBm	±2dB

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802.11ax HE20	MCS0	23dBm	±2dB	-95dBm	±2dB
	MCS1	23dBm	±2dB	-93dBm	±2dB
	MCS2	23dBm	±2dB	-90dBm	±2dB
	MCS3	23dBm	±2dB	-87dBm	±2dB
	MCS4	23dBm	±2dB	-83dBm	±2dB
	MCS5	22dBm	±2dB	-80dBm	±2dB
	MCS6	21dBm	±2dB	-77dBm	±2dB
	MCS7	20dBm	±2dB	-74dBm	±2dB
	MCS8	18dBm	±2dB	-71dBm	±2dB
	MCS9	18dBm	±2dB	-68dBm	±2dB
	MCS10	16dBm	±2dB	-65dBm	±2dB
	MCS11	16dBm	±2dB	-62dBm	±2dB
	MCS12	15dBm	±2dB	-58dBm	±2dB
	MCS13	15dBm	±2dB	-55dBm	±2dB
802.11ax HE40	MCS0	23dBm	±2dB	-89dBm	±2dB
	MCS1	23dBm	±2dB	-87dBm	±2dB
	MCS2	23dBm	±2dB	-85dBm	±2dB
	MCS3	23dBm	±2dB	-83dBm	±2dB
	MCS4	23dBm	±2dB	-81dBm	±2dB
	MCS5	22dBm	±2dB	-78dBm	±2dB
	MCS6	21dBm	±2dB	-75dBm	±2dB
	MCS7	20dBm	±2dB	-72dBm	±2dB
	MCS8	18dBm	±2dB	-69dBm	±2dB
	MCS9	18dBm	±2dB	-66dBm	±2dB
	MCS10	16dBm	±2dB	-63dBm	±2dB
	MCS11	16dBm	±2dB	-60dBm	±2dB
	MCS12	15dBm	±2dB	-55dBm	±2dB
	MCS13	15dBm	±2dB	-52dBm	±2dB

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802.11ax HE80	MCS0	23dBm	±2dB	-86dBm	±2dB
	MCS1	23dBm	±2dB	-84dBm	±2dB
	MCS2	23dBm	±2dB	-81dBm	±2dB
	MCS3	23dBm	±2dB	-79dBm	±2dB
	MCS4	23dBm	±2dB	-76dBm	±2dB
	MCS5	22dBm	±2dB	-74dBm	±2dB
	MCS6	21dBm	±2dB	-71dBm	±2dB
	MCS7	20dBm	±2dB	-68dBm	±2dB
	MCS8	18dBm	±2dB	-65dBm	±2dB
	MCS9	18dBm	±2dB	-62dBm	±2dB
	MCS10	16dBm	±2dB	-59dBm	±2dB
	MCS11	16dBm	±2dB	-56dBm	±2dB
	MCS12	15dBm	±2dB	-52dBm	±2dB
	MCS13	15dBm	±2dB	-50dBm	±2dB
802.11ax HE160	MCS0	23dBm	±2dB	-86dBm	±2dB
	MCS1	23dBm	±2dB	-84dBm	±2dB
	MCS2	23dBm	±2dB	-81dBm	±2dB
	MCS3	23dBm	±2dB	-79dBm	±2dB
	MCS4	23dBm	±2dB	-76dBm	±2dB
	MCS5	22dBm	±2dB	-74dBm	±2dB
	MCS6	21dBm	±2dB	-71dBm	±2dB
	MCS7	20dBm	±2dB	-68dBm	±2dB
	MCS8	18dBm	±2dB	-65dBm	±2dB
	MCS9	18dBm	±2dB	-62dBm	±2dB
	MCS10	16dBm	±2dB	-59dBm	±2dB
	MCS11	16dBm	±2dB	-56dBm	±2dB
	MCS12	15dBm	±2dB	-52dBm	±2dB
	MCS13	15dBm	±2dB	-50dBm	±2dB

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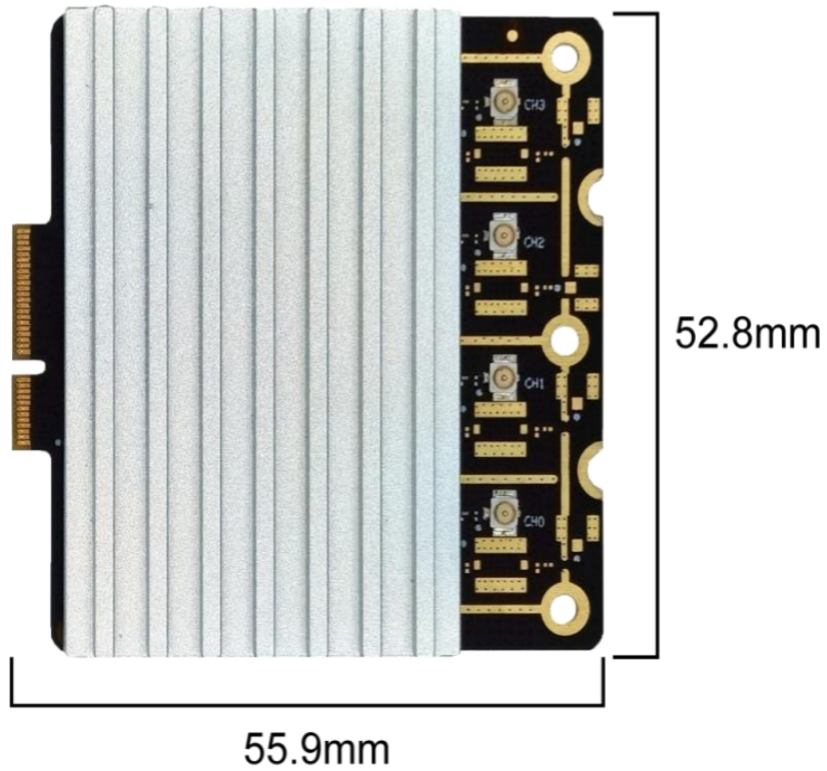
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Dimensions



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