

## MX-A6012-ME V2 Router/AP/Gateway WiFi6 Wireless Access Point

### Features

- Qualcomm® Atheros IPQ6000 quad-core ARM 64-bit A53 1.2GHz processor
- 2x2 2.4GHz radios with up to 573Mbps physical data rate
- 2x2 5.8GHz radios with up to 1201Mbps physical data rate
- Support Dynamic Frequency Selection (DFS)
- DDR3 memory up to 3 GB
- Up to 256MB (32MB) of SPI or Flash
- Up to 256MB of NAND Flash
- Support Uart/GPIO/LED
- WAN connector: 1\*100Mbps (GH1.25mm 6P with lock)
- LAN connector: 1\*100/1000Mbps (GH1.25mm 8P with lock)
- DC power supply: DC12/2A (GH1.25mm 4P with lock)



### Description

MX-A6012-ME V2 Router/AP/Gateway WiFi6 Wireless Access Point is a complete solution for 802.11 g/gn/an/ac/ax Wi-Fi6, it's optimized for low power, low cost and highly integrated AP.

Based on the single-chip IPQ6000, the product integrates a quad-core ARM Cortex-A53 1.2GHz CPU and dual-band 802.11 g/gn/an/ac/ax 2x2 MIMO MAC/BB/radio with external FEM. It supports 802.11 ax operation, up to 1700 Mbps for 80MHz.

### Recommended Operating Ratings

OBJECT	MINIMUM	STANDARD	MAXIMUM	UNIT
OPERATING TEMPERATURE	-20	25	70	°C
	-4	77	158	°F
VDD 12V	11.8	12	12.2	V
VDDIO	1.6	1.8 or 3.3	3.6	V

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

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

## DC characteristics

OBJECT	MINIMUM	STANDARD	MAXIMUM	UNIT
SPARE ITEMS	-	15	-	mA
TX CURRENT (4 CHAINS)	-	950	-	mA
RECEIVE CURRENT (4 CHAINS)	-	250	-	mA

## Environmental Requirements

OPERATING TEMPERATURE	-20°C ~ 55°C / -4~131°F
STORAGE TEMPERATURE	-40°C ~ 85°C / -40~185°F
OPERATING HUMIDITY	5% ~ 95%
STORAGE HUMIDITY	5% ~ 95%

## VESD

HUMAN BODY MODEL	-2000V ~ +2000V
MACHINE MODE	-200V ~ +200V

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

TEL: 86-25-86380932

WEB: [www.mxcomm.cn](http://www.mxcomm.cn)

E-MAIL: [info@maxonc.com](mailto:info@maxonc.com)

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## Radio Frequency Parameters (2GHz)

	RATE	TRANSMIT POWER (PER CHAIN)	TRANSMIT POWER (DUAL CHAIN)	TOLERANCE	RECEIVE SENSITIVITY	TOLERANCE
2GHz 802.11b	1Mbps	20dBm	23dBm	±2dB	-101dBm	±2dB
	2Mbps	20dBm	23dBm	±2dB	-99dBm	±2dB
	5.5Mbps	20dBm	23dBm	±2dB	-97dBm	±2dB
	11Mbps	20dBm	23dBm	±2dB	-94dBm	±2dB
2GHz 802.11g	6Mbps	20dBm	23dBm	±2dB	-97dBm	±2dB
	9Mbps	20dBm	23dBm	±2dB	-95dBm	±2dB
	12Mbps	20dBm	23dBm	±2dB	-92dBm	±2dB
	18Mbps	20dBm	23dBm	±2dB	-90dBm	±2dB
	24Mbps	20dBm	23dBm	±2dB	-87dBm	±2dB
	36Mbps	20dBm	23dBm	±2dB	-85dBm	±2dB
	48Mbps	20dBm	23dBm	±2dB	-83dBm	±2dB
	54Mbps	20dBm	23dBm	±2dB	-81dBm	±2dB
2GHz 802.11n HT20	MCS 0	20dBm	23dBm	±2dB	-96dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-94dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-92dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-88dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-86dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-80dBm	±2dB
2GHz 802.11n HT40	MCS 0	20dBm	23dBm	±2dB	-94dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-92dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-88dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-86dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-77dBm	±2dB

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TEL: 86-25-86380932

WEB: [www.mxcomm.cn](http://www.mxcomm.cn)

E-MAIL: [info@maxonc.com](mailto:info@maxonc.com)

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## Radio Frequency Parameters (2GHz)

	RATE	TRANSMIT POWER (PER CHAIN)	TRANSMIT POWER (DUAL CHAIN)	TOLERANCE	RECEIVE SENSITIVITY	TOLERANCE
2GHz 802.11ax HE20	MCS 0	20dBm	23dBm	±2dB	-97dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-95dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-92dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-84dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-81dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-78dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-75dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-72dBm	±2dB
	MCS 10	16dBm	19dBm	±2dB	-69dBm	±2dB
	MCS 11	15dBm	18dBm	±2dB	-66dBm	±2dB
2GHz 802.11ax HE40	MCS 0	20dBm	23dBm	±2dB	-95dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-93dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-84dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-81dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-78dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-75dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-72dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-69dBm	±2dB
	MCS 10	16dBm	19dBm	±2dB	-66dBm	±2dB
	MCS 11	15dBm	18dBm	±2dB	-64dBm	±2dB

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## Radio Frequency Parameters (5GHz)

	RATE	TRANSMIT POWER (PER CHAIN)	TRANSMIT POWER (DUAL CHAIN)	TOLERANCE	RECEIVE SENSITIVITY	TOLERANCE
5GHz 802.11a	6Mbps	20dBm	23dBm	±2dB	-94dBm	±2dB
	9Mbps	20dBm	23dBm	±2dB	-92dBm	±2dB
	12Mbps	20dBm	23dBm	±2dB	-89dBm	±2dB
	18Mbps	20dBm	23dBm	±2dB	-87dBm	±2dB
	24Mbps	20dBm	23dBm	±2dB	-85dBm	±2dB
	36Mbps	20dBm	23dBm	±2dB	-83dBm	±2dB
	48Mbps	20dBm	23dBm	±2dB	-80dBm	±2dB
	54Mbps	20dBm	23dBm	±2dB	-78dBm	±2dB
5GHz 802.11n/ac VHT20	MCS 0	20dBm	23dBm	±2dB	-94dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-92dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-89dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-77dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-75dBm	±2dB
5GHz 802.11n/ac VHT40	MCS 0	20dBm	23dBm	±2dB	-92dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-88dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-82dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-76dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-73dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-70dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-67dBm	±2dB

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## Radio Frequency Parameters (5GHz)

	RATE	TRANSMIT POWER (PER CHAIN)	TRANSMIT POWER (DUAL CHAIN)	TOLERANCE	RECEIVE SENSITIVITY	TOLERANCE
5GHz 802.11ac VHT80	MCS 0	20dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-78dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-75dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-73dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-70dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-67dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-64dBm	±2dB
5GHz 802.11ax HET20	MCS 0	20dBm	23dBm	±2dB	-94dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-92dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-89dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-86dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-77dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-74dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-71dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-68dBm	±2dB
	MCS 10	16dBm	19dBm	±2dB	-65dBm	±2dB
	MCS 11	15dBm	18dBm	±2dB	-62dBm	±2dB

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5GHz 802.11ax HE40	MCS 0	20dBm	23dBm	±2dB	-89dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-87dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-83dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-81dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-78dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-75dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-72dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-69dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-66dBm	±2dB
	MCS 10	16dBm	19dBm	±2dB	-63dBm	±2dB
	MCS 11	15dBm	18dBm	±2dB	-60dBm	±2dB
5GHz 802.11ax HE80	MCS 0	20dBm	23dBm	±2dB	-86dBm	±2dB
	MCS 1	20dBm	23dBm	±2dB	-84dBm	±2dB
	MCS 2	20dBm	23dBm	±2dB	-81dBm	±2dB
	MCS 3	20dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 4	20dBm	23dBm	±2dB	-76dBm	±2dB
	MCS 5	20dBm	23dBm	±2dB	-74dBm	±2dB
	MCS 6	20dBm	23dBm	±2dB	-71dBm	±2dB
	MCS 7	19dBm	22dBm	±2dB	-68dBm	±2dB
	MCS 8	18dBm	21dBm	±2dB	-65dBm	±2dB
	MCS 9	18dBm	21dBm	±2dB	-62dBm	±2dB
	MCS 10	16dBm	19dBm	±2dB	-59dBm	±2dB
	MCS 11	15dBm	18dBm	±2dB	-56dBm	±2dB

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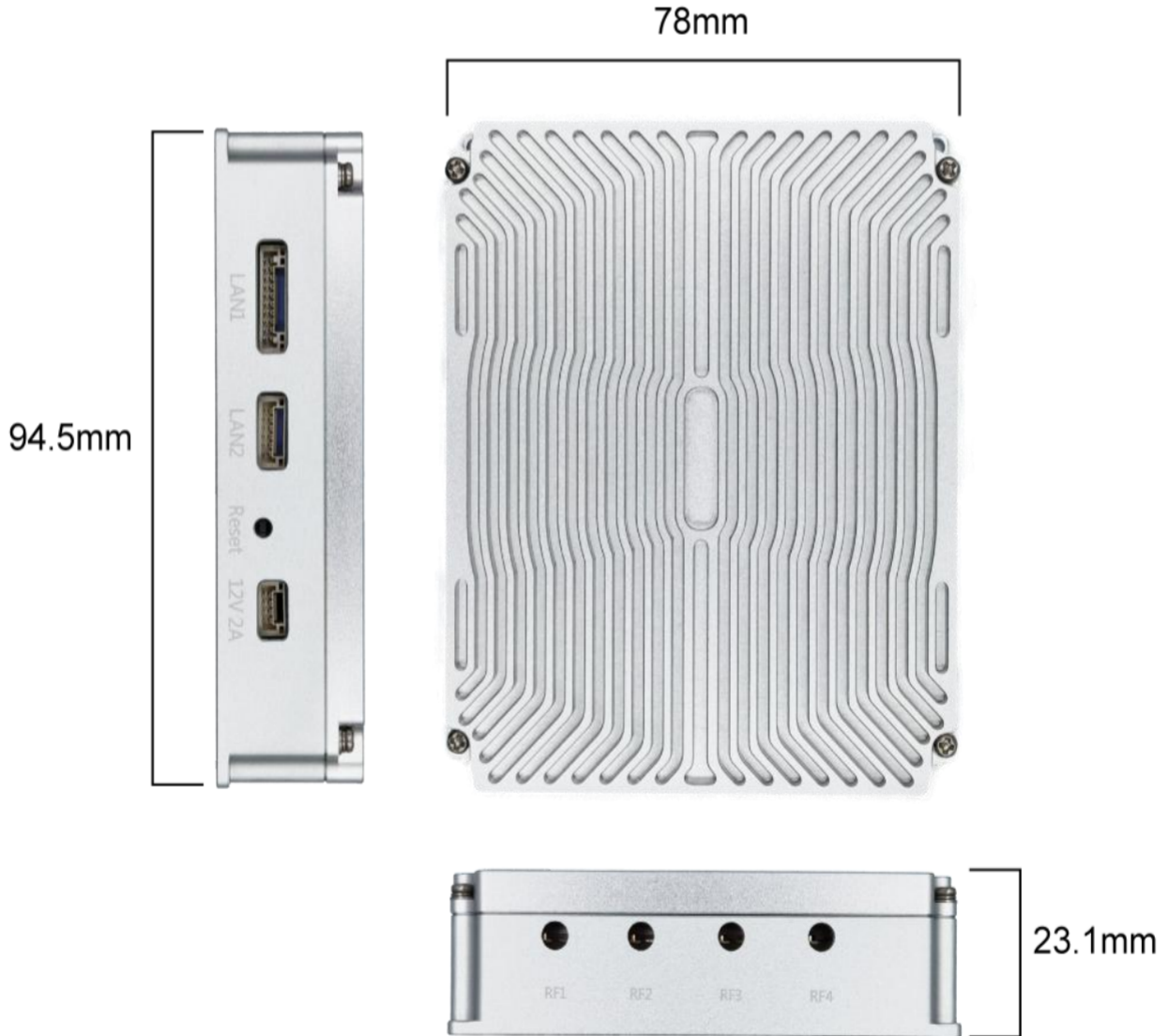
WEB: [www.mxcomm.cn](http://www.mxcomm.cn)

E-MAIL: [info@maxonc.com](mailto:info@maxonc.com)

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## Dimension



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E-MAIL: [info@maxonc.com](mailto:info@maxonc.com)