

# MX-A6012-ME V2

AP/路由器/网关 Wi-Fi 6

2T2R 802.11 g/gn/an/ac/ax 无线接入点



## 产品特征

- 高通Atheros IPQ6000四核ARM 64位A53 1.2GHz处理器
- 2x2车载2GHz无线电，物理数据速率高达573Mbps
- 2x2车载5GHz无线电，物理数据速率高达1201Mbps
- 支持动态频率选择 (DFS)
- DDR3内存高达3 GB
- 最高256MB (32MB) 的SPI或闪存
- 高达256MB的NAND闪存
- 支持Uart/GPIO/LED
- WAN接口：1\*100Mbps (GH1.25mm 6P带锁扣)
- LAN接口：1\*100/1000Mbps (GH1.25mm 8P带锁扣)
- DC供电：DC12/2A (GH1.25mm 4P带锁扣)

## 产品概述

MX-A6012-ME V2是一个完整的802.11 g/gn/an/ac/ax Wi-Fi6解决方案，针对低功耗、低成本和高度集成的AP和消费电子设备进行了优化。该产品将所有Wi-Fi功能集成在一个对低成本PCB设计友好的封装中。

该产品基于单芯片IPQ6000，集成了四核ARM Cortex-A53 1.2GHz CPU和带有外部FEM的双频802.11 g/gn/an/ac/ax 2x2 MIMO MAC/BB/无线电。它支持802.11 ax操作，对于80MHz，最高可达1700 Mbps。

## 推荐运行额定值

要素	最小值	标准值	最大值	单位
工作温度	-20	25	70	°C
VDD 12V	11.80	12.00	12.20	V
VDD IO	1.6	1.8 or 3.3	3.6	V

## 直流特性

要素	最小值	标准值	最大值	单位
备用物品	-	15	-	mA
Tx 电流 (4 通道)	-	950	-	mA
接收电流 (4 通道)	-	250	-	mA

## 环境条件

温度	工作温度：-20°C ~ 55°C 存储温度：-40°C ~ 85°C
湿度	工作湿度：5% ~ 95% 存储湿度：5% ~ 95%
VESD	人体模型：-2000V ~ +2000V 机器模式：-200V ~ +200V

## 射频参数 ( 2GHz )

	速率	发射功率 (单通道)	发射功率 (双通道)	公差	接收灵敏度	公差
<b>2GHz 802.11b</b>	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
<b>2GHz 802.11g</b>	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
<b>2GHz 802.11n HT20</b>	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
<b>2GHz 802.11n HT40</b>	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

## 射频参数 ( 2GHz )

	速率	发射功率 (单通道)	发射功率 (双通道)	公差	接收灵敏度	公差
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	

## 射频参数 ( 5GHz )

	速率	发射功率 ( 单通道 )	发射功率 ( 双通道 )	公差	接收灵敏度	公差
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
5GHz 802.11n/ac VHT40	MCS 8	18dBm	21dBm	±2dB	-75dBm	±2dB
	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
5GHz 802.11ac VHT80	MCS 9	18dBm	21dBm	±2dB	-67dBm	±2dB
	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	

## 射频参数 ( 5GHz )

	速率	发射功率 ( 单通道 )	发射功率 ( 双通道 )	公差	接收灵敏度	公差
<b>5GHz 802.11ax HET20</b>	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
<b>5GHz 802.11ax HE40</b>	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
<b>5GHz 802.11ax HE80</b>	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

# 产品尺寸

