

MX-6012A

Wi-Fi 6 AP/路由器/网关

2T2R 802.11 b/g/a/n/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
- 2.4GHz速率573.5Mbps, 5.8GHz速率1200Mbps
- 支持接入点, 客户端, WDS接入点, WDS客户端模式
- 1GB DDR3+ 16MB Nor Flash+ 128MB Nand
- 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-6012是一个高性能的802.11 b/g/a/n/ac/ax Wi-Fi6解决方案, 具有低功耗、低成本和高度集成的产品特性; 该产品具有较小体积, 便于嵌入和使用。

该产品基于单芯片IPQ6000, 集成了四核ARM Cortex-A53 1.2GHz CPU, 支持802.11 ax协议, 支持MIMO 2*2支持80MHz信道宽度, 最高速率可达1733.5 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%

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 802.11b	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

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
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
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

产品尺寸

