



DR8072A(HK09)

2x(4x4) 2.4GHz &5GHz 11AX MU-MIMO DUAL CONCURRENT EMBEDDED BOARD

Features

- Qualcomm Atheros IPQ8072A ARQuad Core CPU
- On-board 5GHz radio, up to 2475Mbps physical data rate 8 MB NOR Flash, 256MB NAND Flash
- On-board 2.4GHz radio, up to 1147Mbps physical data rate
- Support 11ax TX Beamforming
- Support 11ac/ax MU-MIMO DL and UL
- Support OFDMA DL and UL
- support with 4x4/5GHz + 4x4/2.4GHz
- Supports Dynamic Frequency Selection (DFS)

Applications

- Dual Band MU-MIMO 802.11g/n/ac/ax
- Access Point Wireless application
- 4x4MU-MIMO 802.11ac Access Point

Product Description

DR8072A(HK09) based on IPQ8072A chipset is an enterprise wireless module integrated with 2x2(4x4) 5G high power Radio module and 4x4 2.4G high power Radio module designed specifically to provide users with mobile access to high-bandwidth video streaming, voice, and data transmission for office and challenging RF environment in factories, warehouses establishment.

Absolute Maximum Rating

Parameter	Rating	Unit
Operating Temperature Range	-20 to +70	°C
Storage Temperature Range	-40 to +90	°C
Operating Humidity Range	5 to +95 (non-condensing)	%
Storage Humidity Range	0 to +90 (non-condensing)	%

Hardware Specifications

Symbol	Parameter
CPU	Qualcomm Atheros Quad Core ARM Cortex 64-bit A53 Processor IPQ8072A 2.2GHz CPU
CPU Frequency	Derived from Qualcomm Atheros AP.HK09
System Memory	1x 512MB, DDR4 2400MHz 16-bit interface
Frequency Range	2.412~2.472GHz, 5.150~5.825GHz
MiniPCle Slot	1x MiniPCle Slot with PCIe 3.0
Modulation Techniques	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Environmental Temperature	Operating: -20°C to 70°C, Storage: -40°C to 90°C
Flash	NOR Flash: 8 MB NAND Flash: 256MB
Wireless	On-board 4x4 2.4GHz MU-MIMO OFDMA 802.11b/g/n/ax, max 17dBm per chain On-board 4x4 5GHz MU-MIMO OFDMA 802.11a/n/ac/ax, max 17dBm per chain 8x U.FL Connectors
Reset Buttons	1x S/W Reset Button
DC Jack Input	1x DC Jack Connector: 12V
Interface	4x 1Gbps Ethernet Port, 2x 2.5Gbps Ethernet Port 2x USB 3.0 Port 1x JTAG 20 Pin Connector 1x Serial Port 4 Pin Connector
LED	2x RGB LED Indicators
Power Consumption	TBD