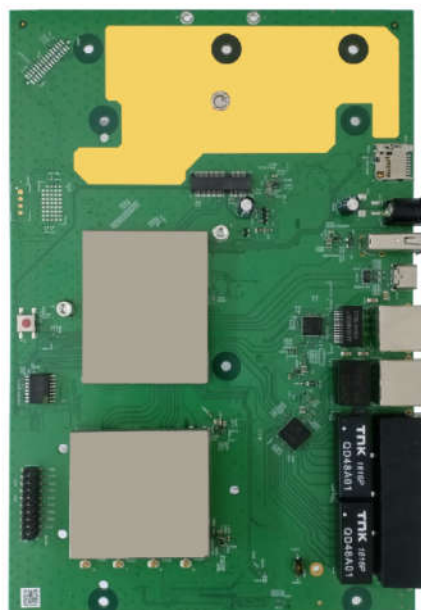


11AX MU-MIMO OFDMA DUAL BAND DUAL CONCURRENT EMBEDDED BOARD

Features

- Quad-core ARM 64bit A53 @1.8GHz Processor
- 1GB DDRL3L System Memory
- 32MB NOR Flash, 256MB NAND Flash
- Supports Dynamic Frequency Selection (DFS)
- 2x2 On-board 2.4GHz radio, up to 573Mbps physical Data Rate
- 2x2 On-board 5GHz radio, up to 1201Mbps physical Data Rate



Applications

- 802.11ax MU-MIMO OFDMA Access Point
- Mesh router supporting EasyMeshHotel Wireless application
- Smart AP TWT

Product Description

DR6018 based on IPQ6018 chipset is an enterprise wireless module integrated with 2x2 5G high power Radio module and 2x2 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
Supply Voltage	24V~48	V
Operating Temperature Range	-40 to +70	°C
Storage Temperature Range	-45 to +105	°C
Operating Humidity Range	5 to +95 (non-condensing)	%

Storage Humidity Range	0 to +90 (non-condensing)	%
------------------------	---------------------------	---

Hardware Specifications

Symbol	Parameter
CPU	Qualcomm-Atheros IPQ6018
CPU Frequency	Quad-core ARM 64 bit A53 @1.8 GHz processor
System Memory	1GB (2x 512MB) DDR3L 16-bit interface with 32-bit memory bus design
Ethernet Port	5x 1Gbps Ethernet Ports , 1x 2.5Gbps Ethernet Port
NGFF Slot	M.2 (NGFF) “E Key” Socket with MiniPCIe 3.0
SD Card Slot	1x SD Card Slot
USB /header	1x USB 2.0 Port, 1x USB 3.0 Type-C Port
POE	24V~48V passive POE
DC Jack	12V power supply
LED header	FFC/FPC Connector
Serial Port	1x Serial Port 12 Pin Connector
Wireless	On-board 2x2 2.4GHz MU-MIMO OFDMA 802.11b/g/n/ax, max 23dBm per chain On-board 2x2 5GHz MU-MIMO OFDMA 802.11a/n/ac/ax, max 20dBm per chain 4x U.FL Connectors
Nor Flash	32MB
Nand Flash	256MB
DDR	256MB~512MB
Dimension (W x H x D)	219mm x 150mm x 16.5mm (Without Heatsink)

Radio TX Specifications(5180MHz-5825MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
5Ghz 802.11ax HE20	MCS0	20dBm	23dbm	±2dB
	MCS1	20dBm	23dBm	±2dB
	MCS2	20dBm	23dBm	±2dB
	MCS3	20dBm	23dBm	±2dB
	MCS4	19dBm	22dBm	±2dB
	MCS5	18dBm	21dBm	±2dB
	MCS6	17dBm	20dBm	±2dB
	MCS7	16dBm	19dBm	±2dB
	MCS8	15dBm	18dBm	±2dB
	MCS9	14dBm	17dBm	±2dB
	MCS10	13dBm	16dBm	±2dB
5Ghz 802.11ax HE400	MCS0	20dBm	23dbm	±2dB
	MCS1	20dBm	23dBm	±2dB
	MCS2	20dBm	23dBm	±2dB
	MCS3	20dBm	23dBm	±2dB
	MCS4	19dBm	22dBm	±2dB
	MCS5	18dBm	21dBm	±2dB
	MCS6	17dBm	20dBm	±2dB
	MCS7	16dBm	19dBm	±2dB
	MCS8	15dBm	18dBm	±2dB
	MCS9	14dBm	17dBm	±2dB
	MCS10	13dBm	16dBm	±2dB
5Ghz 802.11ax HE80	MCS0	20dBm	23dbm	±2dB
	MCS1	20dBm	23dBm	±2dB
	MCS2	20dBm	23dBm	±2dB
	MCS3	20dBm	23dBm	±2dB
	MCS4	19dBm	22dBm	±2dB
	MCS5	18dBm	21dBm	±2dB
	MCS6	17dBm	20dBm	±2dB
	MCS7	16dBm	19dBm	±2dB
	MCS8	15dBm	18dBm	±2dB
	MCS9	14dBm	17dBm	±2dB
	MCS10	13dBm	16dBm	±2dB

	MCS11	13dBm	16dbm	±2dB
--	-------	-------	-------	------

Radio TX Specifications(2412MHz-2482MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
2.4Ghz 802.11ax HE20	MCS0	23dbm	26dbm	±2dB
	MCS1	23dBm	26dBm	±2dB
	MCS2	23dBm	26dBm	±2dB
	MCS3	23dBm	26dBm	±2dB
	MCS4	23dBm	26dBm	±2dB
	MCS5	23dBm	26dBm	±2dB
	MCS6	23dBm	26dBm	±2dB
	MCS7	22dBm	25dBm	±2dB
	MCS8	21dBm	24dBm	±2dB
	MCS9	21dBm	24dBm	±2dB
	MCS10	18dBm	21dBm	±2dB
MCS11	17dbm	20dbm	±2dB	
2.4Ghz 802.11ax HE40	MCS0	23dbm	26dbm	±2dB
	MCS1	23dBm	26dBm	±2dB
	MCS2	23dBm	26dBm	±2dB
	MCS3	23dBm	26dBm	±2dB
	MCS4	23dBm	26dBm	±2dB
	MCS5	23dBm	26dBm	±2dB
	MCS6	23dBm	26dBm	±2dB
	MCS7	22dBm	25dBm	±2dB
	MCS8	21dBm	24dBm	±2dB
	MCS9	21dBm	24dBm	±2dB
	MCS10	21dBm	24dBm	±2dB
MCS11	19dbm	22dbm	±2dB	