

WALLYS DR5018 11AXMU-MIMOOFDMA WiFi 6 Multi-Function IPQ 5018 Embedded Board Owner's Manual

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DR5018
11AX MU-MIMO OFDMA



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Features

- Dual- core ARM 6 4 bit A5 3 @ 1 . 0 GHzProcessor
- 1 GB DDRL3 L System Memory
- 8 MB NOR Flash, 1 2 8 MB NAND Flash
- 2×2 On- board2 .4GHz radio, upto573Mbps physical Data Rate
- Support BT5. 1
- M. 2 Card Slot for 5G (QUECTEL RM 500 Q- GL) ;
- M. 2 Card Slot for QCN90 7 4 WIFI 6 E Card

Applications

- 802 .11ax MU- MIMO OFDMA Access Point
- Mesh router supporting Easy Mesh Hotel Wireless
- Smart AP TWT

Product Description

DR5018 based on IPQ5018 chipset is an enterprise wireless module integrated with BT5.1 Radio module and 2×2 2.4 G 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	-40 to +70	°C
Storage Temperature Range	-45 to + 105	°C
Operating Humidity Range	5 to +95 (noncondensing)	%
Storage Humidity Range	0 to +90 (noncondensing)	%

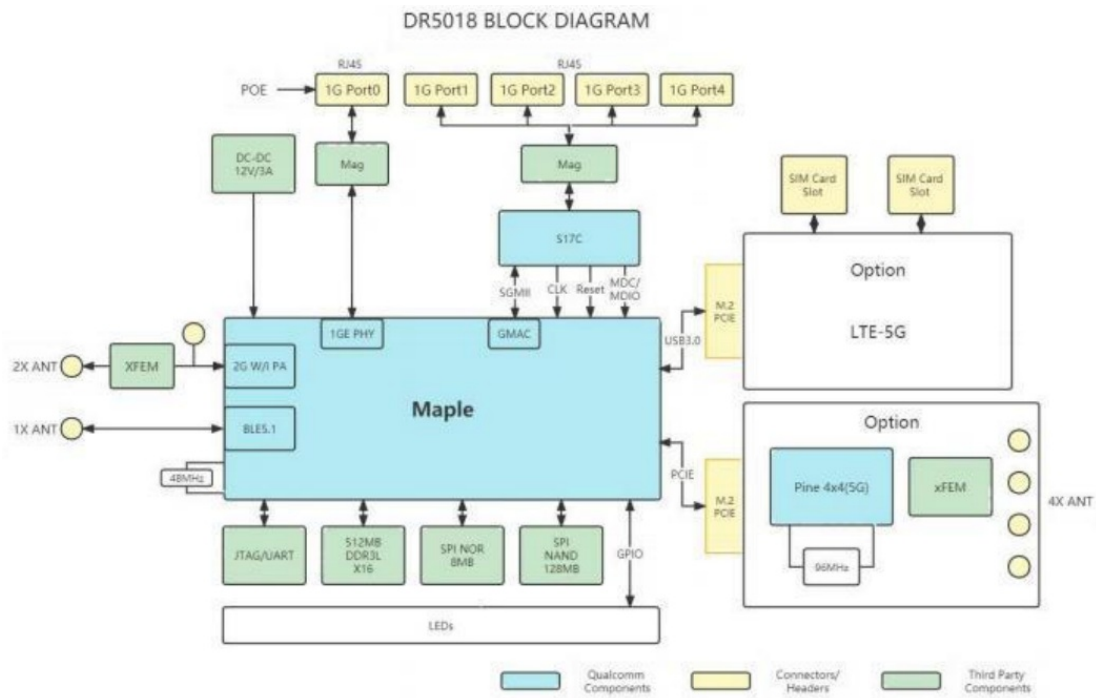
Hardware Specifications

Symbol	Parameter
CPU	Qualcomm- Atheros IPQ5018
CPU Frequency	Dual- core ARM 64 bit A53 @ 1.0 GHz processor
System Memory	512MB DDR3L 16 – bit interface with 32 – bit memory bus design
Ethernet Port	4 x 1Gbps Ethernet Ports 1 x 1Gbps Ethernet Port
NGFF Slot	M. 2 Card Slot for QCN9074 WIFI 6 E Card M. 2 Card Slot for 5G (QUECTEL RM 500Q- GL)
EMMC	4 G/ 8 G(optional)
POE	NA
DC Jack	1.2 V power supply
LED header	LED for power , Wifi strength
Serial Port	support
Wireless	On- board 2x2 2.4GHz MU- MIMO OFDMA 802.11b/g/n/ax, max 23 dBm per chain 2 x IPEX Connectors
Bluetooth	BT5.1
Nor Flash	8MB
Nand Flash	128MB
DDR	512 MB
Dimension	170mm×120mm×15mm

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	23 dBm	26dBm	±2dB
	MCS2	23 dBm	26dBm	±2dB
	MCS3	23 dBm	26dBm	±2dB
	MCS4	23 dBm	26dBm	±2dB
	MCS5	23dBm	26dBm	±2dB
	MCS6	23dBm	26dBm	±2dB
	MCS7	22dBm	25dBm	±2dB
	MCS8	21 dBm	24 dBm	±2dB
	MCS9	21 dBm	24dBm	±2dB
	MCS10	18dBm	21 dBm	±2dB
	MCS11	17dBm	20 dBm	±2dB
2.4Ghz 802.11ax 1E40	MCS0	23dbm	26dbm	±2dB
	MCS1	23dBm	26dBm	±2dB
	MCS2	23dBm	26dBm	±2dB
	MCS3	23 dBm	26dBm	±2dB
	MCS4	23 dBm	26dBm	±2dB
	MCS5	23 dBm	26dBm	±2dB
	MCS6	23 dBm	26dBm	±2dB
	MCS7	22dBm	25 dBm	±2dB
	MCS8	21 dBm	24 dBm	±2dB
	MCS9	21 dBm	24 dBm	±2dB
	MCS10	21 dBm	24 dBm	±2dB
	MCS11	19dBm	22 dBm	±2dB

Block diagram



<http://www.wallystech.com/>

Documents / Resources

	WALLYs DR5018 11AXMU-MIMOOFDMA WiFi 6 Multi-Function IPQ 5018 Embedded Board [pdf] Owner's Manual DR5018 11AXMU-MIMOOFDMA WiFi 6 Multi-Function IPQ 5018 Embedded Board, DR5018, 11AXMU-MIMOOFDMA WiFi 6 Multi-Function IPQ 5018 Embedded Board, WiFi 6 Multi-Function IPQ 5018 Embedded Board, Multi-Function IPQ 5018 Embedded Board, IPQ 5018 Embedded Board, Embedded Board, Board
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References

- [Wallys 802.11ax, wifi 6, IPQ4029,IPQ4019,IPQ6018,IPQ6000.Router board, wireless card.Access Point.](#)
- [Wallys 802.11ax, wifi 6, IPQ4029,IPQ4019,IPQ6018,IPQ6000.Router board, wireless card.Access Point.](#)