

DR-AP5322 is a 2x2 2.4G high power Radio wifi7 AP Router which including:

- 1 x DR5322( IPQ5322) routerboard;
- 2 x dipole Antennas WiFi7,2.4~2.5&5.15~7.15GHz;
- 1 x Enclosure.

### Dipole antenna

- Wifi7 Antenna ( If you a built-in 2 x wifi7 module, you'll need an additional 8 antennas )
- 5dBi 2.4G~2.5G & 5.15~7.15GH
- SMA Plug interface
- Plastic rod of white
- RoHS compliance



### Enclosure

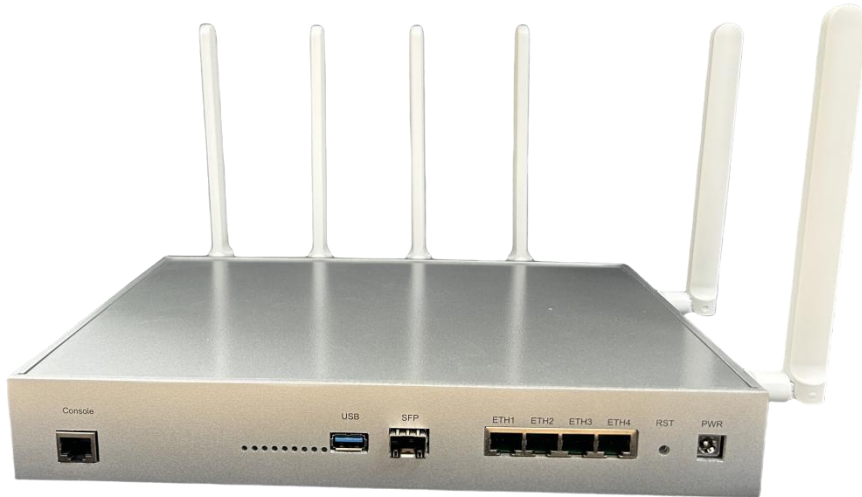
- Dimension: 300x 200 x 44 mm
- Aluminum alloy material
- Support Wallys' PCBA Mainboard

### Features

- Qualcomm IPQ5322 Quad-Core Cortex-A53 @ 1.5GHz processor.
- 2x2 on-board 2.4GHz radio, up to 573Mbps physical data rate.
- support 2x2 5GHz & 2x2 6GHz QCN9274/QCN6274 wifi7 module, up to 5764Mbps physical data rate.
- Flexible Wi-Fi 7 radio configurations via 2x (NGFF)
- 4 x 2.5Gbps ethernet port, 1x 10Gbps SFP.

### Applications

- 802.11be MU-MIMO OFDMA Access Point.
- Internet of Things (IoT).
- HD streaming and gaming.



### Absolute Maximum Rating

Parameter	Rating	Unit
Supply Voltage	12V	V
Environmental Temperature Operating	-20° C to 70° C	° C
Environmental Temperature Storage	-40° C to 90° C	° C
Environmental Humidity Operating	5% to 95% (non-condensing)	%
Environmental Humidity Storage	Max. 90% (non-condensing)	%

### Hardware Specifications

Symbol	Parameter
CPU	Qualcomm IPQ5322 Quad-Core Cortex-A53 @ 1.5GHz processor 'Miami' Series
Reference Design	Qualcomm AP.MI01.2
System Memory	1GB, DDR4 16-bit ( 1x16-bit) interface
Flash	NAND Flash: 512MB NOR Flash: 8MB
Wireless	On-board 2x2 2.4GHz MU-MIMO 802.11b/g/n/ax/be, max 24dBm per chain support QCN9274/QCN6274 wifi7 module 2 x U.FL connectors (IPQ5322)
Frequency Range	2.412~2.472GHz
PeakGain	3dBi for 2.4GHz
ModulationTechniques	OFDMA:BPSK,QPSK,16-QAM,64-QAM,256-QAM,1024-QAM,4096-QAM
NGFF Slot	N/A
Interface	4 x 2.5Gigabit Ethernet (1GbE) LAN/WAN RJ45 Port 1 x 10G SFP Port 1 x JTAG 10Pin Connector 2 x 4Pin Connector 2 x UFL Connector 1x SWITCH Button
LED	TBD
DC Power	1 x DC Jack Connector:12V; 802.3 11BT POE
PowerConsumption (Boardonly)	TBD
Certification	REACH & RoHS Compliance

### Product Version

	P/N	CPU	2.4G	5G	6G	Console
1	DR-AP5322	IPQ5322	2x2	NA	NA	NA
2	DR-AP5322-222C	IPQ5322	2x2	2x2*	2x2*	Support
3	DR-AP5322-222	IPQ5322	2x2	2x2*	2x2*	NA
3	DR-AP5322-244C	IPQ5322	2x2	4x4**	4x4***	Support

\*The radio module spec refer to DR9274-5G6G(2x2 5G & 2x2 6G)

\*\*The radio module spec refer to DR9274-5G(4x4 5G)

\*\*\*The radio module spec refer to DR9274-6G(4x4 6G)