

Wallys Product List

Wireless field:

Provide customers with PTP, PTMP, and self-organizing network solutions;

Artificial intelligence field :

Provide models for various application fields and the hardware required by the models;

sales@wallystech.com





PART 01

Software

01

Mesh 802.11s

02

openwrt/openwifi

03

AP controller

4

TDMA

05

linux , ubuntu

06

WiFi protocol development



PART 02

Hardware

01

Access point

03

WiFi modules

02

Routerboard

04

Antenna



Acces point-outdoor



DR-AP4029-M



DR-AP5018S(Outdoor)



DR-AP5018S(Outdoor)



DR-AP40X9(Outdoor)



Access point-Indoor



DR-AP5322

For WiFi7 DR5322



DR-AP9574

For WiFi7 DR9574



Acces point-Indoor



DR-AP6018-A



DR-AP-6018-S-A



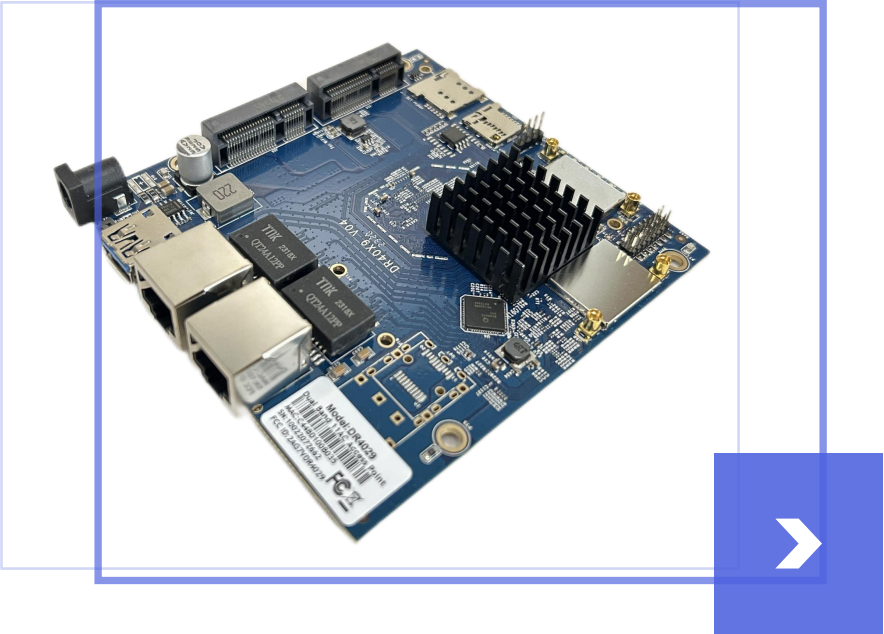
DR-AP5018S-A



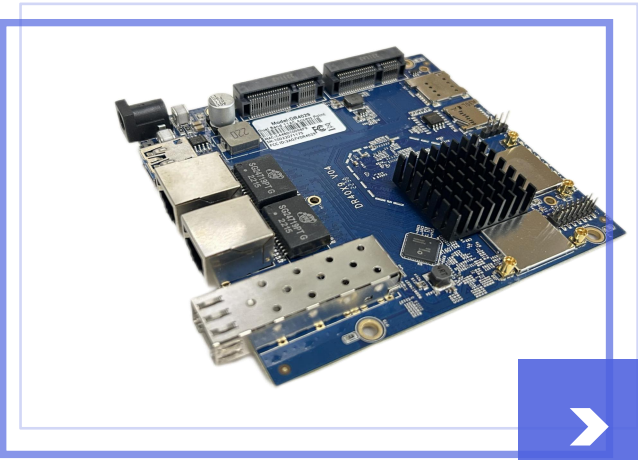
DR-AP40X9-A



Routerboard-WiFi5

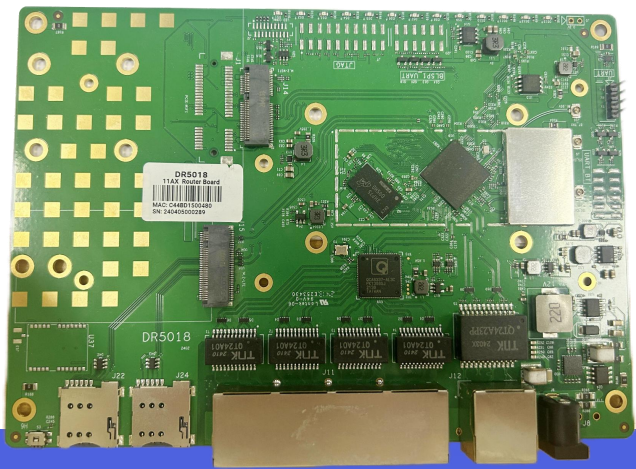


DR4019



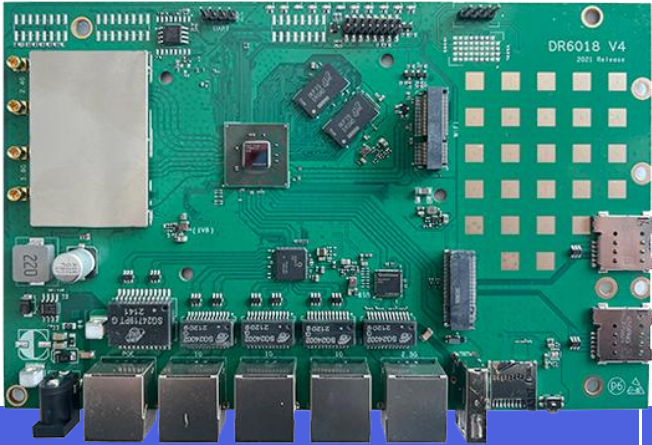
Symbol	Parameter
CPU	IPQ4019 /IPQ4029 (Quad core ARM Cortex A7 at 716.8 MHz)
Antenna Connector	2 x 5G MMCX connectors;2x2.4G MMCX
Ethernet	2xRJ45 10/100/1000Mbps Gigabit
SFP connector	1xSFP fiber module connector (optional)
3G/4G connector	1xmini PCIe 3G/4G connector support with two sim card
USB connector	1xUSB 3.0 connector
POE	24V~48V passive POE
DC Jack	24V~48V power supply
Dimension	115mm x 105mm x 16mm
Max Power	48.1V x 0.180A= 8.658W
Nor Flash	2MB~32MB
Nand Flash	128MB
DDR	256MB~512MB
Software: openwrt, openwifi, mesh 802.11s, ap controller, fast roaming	

Routerboard-WiFi6



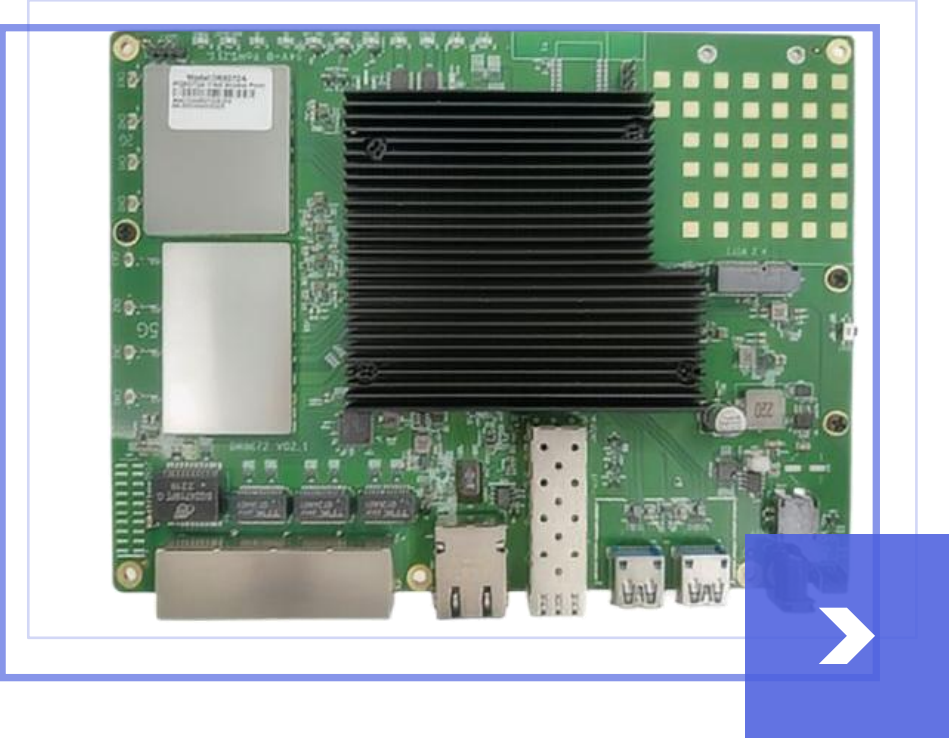
Symbol	DR5018	DR5018S
CPU	Qualcomm-Atheros IPQ5018	Qualcomm-Atheros IPQ5018
System Memory	512MB DDR3L 16-bit interface with 32-bit memory bus design It can support 1G (optional)	512MB DDR3L 16-bit interface with 32-bit memory bus design
Ethernet Port	4 x 1Gbps Ethernet Ports or 1 x 1Gbps Ethernet Port & Poe	1 x 1Gbps Ethernet Port,1x2.5Gbps Ethernet Port
NGFF Slot	M.2 Card Slot for 5G (QUECTEL RM 500Q-GL) ;M.2 Card Slot for QCN9074 WIFI 6E Card	N/A
POE	Support	POE:Active POE, 802.3at/BT,48V passive POE
DC Jack	12V power supply	12V-52V DC power supply
Wireless	On-board 2x22.4GHz MU-MIMO OFDMA 802.11b/802.11g/802.11n/ 802.11ax ,max 23dBm per chain 2x IPEX Connectors	2x2 On-board 2.4GHz radio,up to 573Mbps physical Data Rate 2x2 On-board 5GHz radio,up to 2402Mbps physical Data Rate 2x2 On-board 6GHz radio,up to 2402Mbps physical Data Rate
Bluetooth (optional)	BT5.1	
Nor Flash	8MB	8MB
Nand Flash	128 MB	128 MB
GPS	N/A	optional
Certification	N/A	CE/FCC/UKCA
Software: openwifi, ap controller;		

Routerboard-WiFi6



Symbol	DR6018	DR6018S
CPU	Qualcomm-Atheros IPQ6010	Qualcomm-Atheros IPQ6010
System Memory	1GB (2x 512MB) DDR3L 16-bit interface with 32-bit memory bus design	1GB (2x 512MB) DDR3L 16-bit interface with 32-bit memory bus design
Ethernet Port	1 x 1Gbps Ethernet Ports & POE3 x 1Gbps Ethernet Ports , 1x 2.5Gbps Ethernet Port	1 x 1Gbps Ethernet Ports & POE 1x 1Gbps Ethernet Ports
NGFF Slot	M.2 (NGFF) "E Key" Socket with MiniPCle 3.0	M.2 (NGFF) "E Key" Socket with MiniPCle 3.0(For WiFi Module)
SD Card Slot	1x SD Card Slot	1x SD Card Slot(Optional)
USB /header	1x USB 2.0 Port	1x USB 3.0 Port(Optional)
POE	24V~48V passive POE/Active POE(Suport 802.3bt)	Option 1: 48V~56V passive POE/Active POE(Suport 802.3at) Option 2: 24V~48V passive POE
DC Jack	24V power supply	24V~48V power supply
Serial Port	1x Serial Port 4 Pin Connector	1x Serial Port 4 Pin Connector
Nor Flash	8-32MB(normally is 8MB)	8MB
Nand Flash	256MB	256MB
DDR	1GB	256MB~512MB
Dimension	185mm x 116mm	125mm x 105mm x 20mm
Software: openwifi, ap controller;		

Routerboard-WiFi6

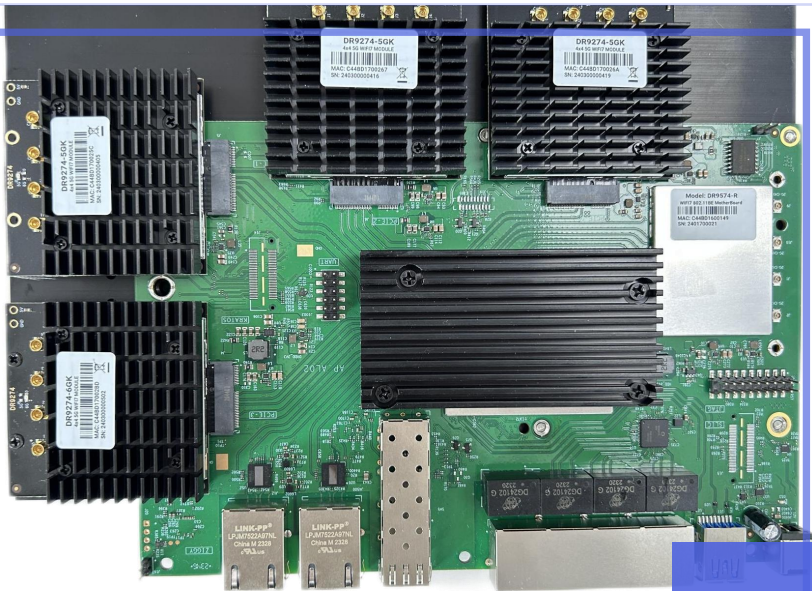


DR8072



Symbol	Parameter
CPU	Qualcomm Atheros Quad Core ARM Cortex 64-bit A53 Processor IPQ8072 2.2GHz CPU
CPU Frequency	Derived from Qualcomm Atheros AP.HK09
System Memory	1x 512MB, DDR4 2400MHz 16-bit interface(RAM can be up to 2GB as optional)
Frequency Range	2.412~2.472GHz, 5.150~5.825GHz
M.2 Slot	1x M.2 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(1GB optional)
Wireless	On-board 4x4 2.4GHz MU-MIMO OFDMA 802.11b/802.11g/802.11n/802.11ax, max 17dBm per chain On-board 4x4 5GHz MU-MIMO OFDMA 802.11a/802.11n/80.211ac/ 802.11ax , max 17dBm per chain 8x U.FL Connectors
Reset Buttons	1x S/W Reset Button
DC Jack Input	1x DC Jack Connector: 12V
POE	48V passive POE/Active POE(Suport 802.3bt)
Interface	4x 1Gbps Ethernet Port, 1x 10Gbps Ethernet Port 1x 10Gbps SFP 2x USB 3.0 Port 1x JTAG 20 Pin Connector 1x Serial Port 4 Pin Connector
LED	2x RGB LED Indicators

Routerboard-WiFi7



DR9574



Symbol	Parameter
Chipset	Qualcomm IPQ9574 Quad-Core ARM-A73 @ 2.2GHz processor 'Alder' Series
WLAN Host Interface	PCI Express 3.0 Interface
System Memory	2GB (2x1GB), DDR4 32-bit (2x16-bit) interface
Standard?Operating Voltage	12V
Operating Systems	QSDK
Host Interface	4 x M.2 E Key interface with PCIe 3.0
Antenna Cable / Port	4 x U.FL Connectors
Frequency Range	4x4 2.4GHz: 2.412~2.472GHz
Data Rates for WLAN	2.4GHz 802.11b/g/n/ax, max 24dBm per chain
Channel Spectrum Widths for WLAN	Supports 20/40MHz at 2.4GHz
Modulation Techniques	OFDMA: BPSK, QPSK, DBPSK, DQPSK, 16-QAM, 64-QAM, 256-QAM,1024QAM, 4096QAM
Temperature Range	Operating: -20 °C to 70 °C, Storage: -40 °C to 90°C
Humidity	Operating: 5% to 95%, Storage: Max. 90%
Certification	REACH & RoHS Compliance
MLO	

Routerboard-WiFi7



DR9574S



Symbol	Parameter
Chipset	Qualcomm IPQ9574 Quad-Core ARM-A73 @ 2.2GHz processor 'Alder' Series
WLAN Host Interface	PCI Express 3.0 Interface
System Memory	2GB (2x1GB), DDR4 32-bit (2x16-bit) interface
Standard Operating Voltage	DC Jack: 12V-52V DC power supply POE:Active POE, 802.3at/BT,48V passive POE
Operating Systems	QSDK
Host Interface	2 x 2.5Gbps ethernet port; 1x 10Gbps ethernet port & POE; 1x 10Gbps SFP; 1x SGMII Interface 1x UART Interface 1 x GPS(Optional) 2 x M.2 E Key interface with PCIe 3.0
Antenna Cable / Port	6 x MMCX Connectors
Frequency Range	2x2 On-board 2.4GHz radio,up to 573.6Mbps physical Data Rate 2x2 On-board 5GHz radio,up to 2882Mbps physical Data Rate 2x2 On-board 6GHz radio,up to 5765Mbps physical Data Rate
Data Rates for WLAN	2.4GHz 802.11b/g/n/ax, max 24dBm per chain
Channel Spectrum Widths for WLAN	Support 20/40MHz at 2.4GHz Support 20/40/80/160MHz at 5GHz Support 20/40/80/160MHz/320MHz at 6GHz
MLO	

Routerboard-WiFi7



DR5424



Symbol	Parameter
Chipset	Qualcomm IPQ5424 Quad-Core ARM-A73 @ 2.2GHz processor 'Alder' Series
WLAN Host Interface	PCI Express 3.0 Interface
System Memory	4GB, DDR4 32-bit interface; 8GB, DDR4 32-bit interface (Max option)
Standard?Operating Voltage	1x DC Jack Connector; DC12V 5A
Operating Systems	QSDK
Host Interface	2 x 10Gigabit Ethernet LAN/WAN RJ45 Port; 4 x 2.5Gigabit Ethernet LAN/WAN RJ45 Port; 1x JTAG 20 Pin Connector; 1x UART 12 Pin Connector; 1x USB 2.0 port; 1x USB 3.0 port;
Antenna Cable / Port	12 x U.FL Connectors
Frequency Range	2.4GHz: 2.412~2.472GHz; 5GHz: 5.150~5.825GHz; 6GHz: 5.945-7.125GHz
Data Rates for WLAN	On-board 4x4 2.4GHz MU-MIMO 802.11b/g/n/ax/be, max 23dBm per chain; On-board 4x4 5GHz MU-MIMO 802.11a/n/ac/ax/be, max 21dBm per chain; On-board 4x4 6GHz MU-MIMO 802.11ax/be, max 19dBm per chain;
MLO	

Routerboard-WiFi7



DR5322S



Symbol	Parameter
Chipset	Qualcomm IPQ5322 Quad-Core ARM-A73 @ 2.2GHz processor 'Alder' Series
WLAN Host Interface	PCI Express 3.0 Interface
System Memory	1GB, DDR4 16-bit (1x16-bit) interface
Power	1 x DC Jack Connector:48V; 802.3 11BT POE
Operating Systems	QSDK
Host Interface	1 x 2.5Gigabit Ethernet LAN/WAN RJ45 Port; 1 x 2.5G poe out RJ45 Port; 1 x 10G SFP Port; 1 x JTAG 10Pin Connector; 2 x 4Pin Connector; 2 x UFL Connector; 1x RESET Button;
Frequency Range	On-board 2x2 2.4GHz MU-MIMO 802.11b/g/n/ax/be, max 24dBm per chain; Onboard 2x2 5Ghz 2x2 6Ghz QCN9274/QCN6274 wifi7 module; 2x MMCX-N connectors(5G); 2x MMCX-N connectors(6G)
MLO	

Routerboard-WiFi7



DR5322



Symbol	Parameter
Chipset	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, support QCN9274/QCN6274 wifi7 module
Frequency Range	2x2 2.4G : 2.412~2.472GHz
Modulation Techniques	OFDMA:BPSK,QPSK,16-QAM,64-QAM,256-QAM,1024-QAM, 4K-QAM
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
LTE	TBD
Power	1 x DC Jack Connector:12V; 802.3 11BT POE
PowerConsumption (Boardonly)	TBD
Certification	REACH & RoHS Compliance
Chipset	Qualcomm IPQ5322 Quad-Core Cortex-A53 @ 1.5GHz processor 'Miami' Series
Reference Design	Qualcomm AP.MI01.2
MLO	

WiFi7 M.2 MODULE



DR9274-2G

DR9274-5G

DR9274-6G

DR9274-5G6G

DR9274-DB

Features	DR9274-2G	DR9274-5G	DR9274-6G	DR9274-5G6G	DR9274-DB
Chipset	Qualcomm Atheros QCN9274(QCN6274)				
WLAN Host Interface	PCI Express 3.0 Interface				
Standard Operating Voltage	5V				
Host Interface	M.2 E Key interface with PCIe 3.0				
Frequency Range	• 4x4 2.4G MU-MIMO, up to 1376Mbps physical data rate; • max Tx power 23dBm per chain;	• 4x 4 5G MU-MIMO, up to 5765Mbps physical data rate; • MaxTx power 22dBm per chain;	• 4x4 6G MU-MIMO, up to 11530Mbps physical data rate; • MaxTx power 22dBm per chain;	• 2x2 5G & 2x2 6G MU-MIMO, up to 8,647Mbps physical data rate; • Max power 22dBm per chain;	• 2×2 2.4GHz MU-MIMO, up to 1376Mbps physical data rate; • 2×2 5GHz MU-MIMO, up to 5765Mbps physical data rate; • MaxTx power 22dBm per chain;
Antenna Cable / Port	4 x UFL/MMCX	4 x MMCX	4 x MMCX	4 x UFL/MMCX Connectors	
Power Consumption	10W(Maximum),8W(Normally)		8.5W(Maximum)	10W(Maximum),8W(Normally)	
Dimensions (LxWxH)	Length width height 63mm x 57mm x 14mm				

WiFi7 Mini Pcie module



Features	DR9274E	DR9274E-DB
Chipset	Qualcomm Atheros QCN9274/QCN6274	
Standard Operating Voltage	3.3v	
Host Interface	MiniPCIe Interface with PCIe 3.0	
Frequency Range	• 5GHz, 2×2 MU-MIMO, up to 2882 Mbps physical data rate; • 6GHz, 2×2 MU-MIMO, up to 5765 Mbps physical data rate;	• 2.4GHz, 2×2 MU-MIMO, up to 1376 Mbps physical data rate; • 5GHz, 2×2 MU-MIMO, up to 5765 Mbps physical data rate;
Antenna Cable / Port	4 x UFL	2 x UFL
Power Consumption	9W Maxim	
Dimensions (LxWxH)	Length width height 30 X 50.8 X 12.5 mm	





Features	DR9074-5G	DR9074-6G	DR9074-TRIBAND
Chipset	Qualcomm Atheros QCN9074(QCN9024)		
WLAN Host Interface	PCI Express 3.0 Interface		
Standard Operating Voltage	5V		
Host Interface	M.2 E Key interface with PCIe 3.0		
Frequency Range	• 4x4 5G MU-MIMO,5.15GHz-5.95GHz; • up to 4804Mbps; • max 23dBm per chain,;	• 4x 4 6G MU-MIMO, 5.925GHz-7.125GHz; • up to 4804Mbps; • max 23dBm per chain;	• Tri Band 2.4GHz&5GHz&6GHz 4x4 ; • up to 4804Mbps; • Maxim 23 dBm per chain;
Antenna Cable / Port	4 x MMCX Connectors,4T4R	4 x MMCX Connectors,4T4R	4 x ufl Connectors,4T4R
Power Consumption	10W(Maximum),8W(Normally)		
Dimensions (LxWxH)	Length width height 63mm x 57mm x 14mm		

MINI PCIE modules



DR900VX



DR600VX



DR882



DR7915

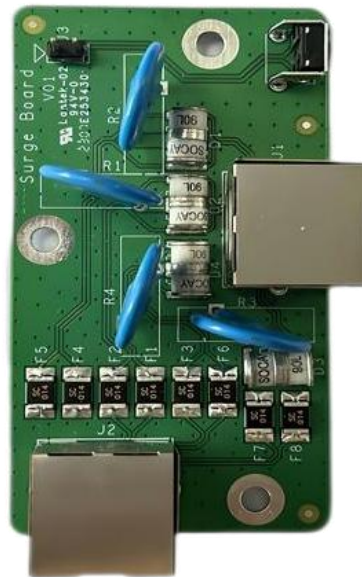
Features	DR900VX	DR600VX	DR882	DR7915
Chipset	QCA9880	QCA9880	QCA9882	MT7915+MT7975 Chipset
Host Interface	Mini PCI Express 1.1 Standard			Mini PCI Express 2.1
Antenna Connector	3 x UF.L	2 x UF.L	2 x 5G MMCX connectors	2 x UF.L
Frequency Range	3x3 MIMO Technology, up to 1.3Gbps 2.4GHz: 2.412GHz to 2.472GHz 5GHz: 4.920GHz to 5.825GHz	2x2 MIMO ,up to 867Mbps 2.4GHz: 2.412GHz to 2.472GHz; 5GHz: 4.920GHz to 5.825GHz	2x 2 5G high power; 4.940GHz to 5.825GHz ;	2.4GHz: 2.412GHz to 2.472GHz; 5GHz: 5.180GHz to 5.825GHz
Operating Voltage	3.3V DC	3.3V DC	3.3V DC	3.3V DC
Power Consumption	5W(Max)	5W(Max)	7W(Max)	9W(Max) average is 4-8W

Adapter



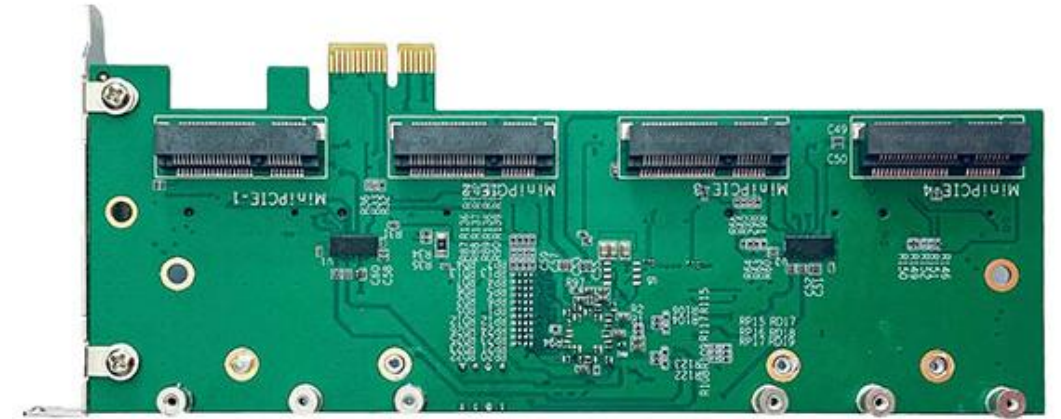
DR3G11

1 x M.2 Card,QCN9074,AX200NGW



Surge Board

- 2xRJ45 (one is for input, one is for output)
- Support surge protection
- It is a module which is used to protect the Ethernet port (2.5Gbps or below).



DR2G41

- 4-miniPCIE-slot
- 4 x Mini PCIe Card
- 4 x M.2 Card



Adapter



PD60

- 2xRJ45 (one is for input, one is for output)
- Support 802.3BT/AT/AF;
- The output voltage is 48V;
- Support surge protection ;



PD25

- 2xRJ45 (one is for input, one is for output)
- Support 802.3BT/AT/AF;
- The output voltage is 48V;
- Support surge protection ;



Panel antenna



DR2G11



DR5G15



DR5G17



DR6G17



DR5G19

Features	DR2G11	DR5G15	DR5G17	DR6G17	DR5G19
Frequency	2.4GHz-2.482GHz	5.1GHz-5.9GHz	5.1GHz-5.9GHz	5.9~7.3GHz	5.150GHz-5.850 GHz
V.S.W.R	<1.85	<1.85	<1.85	2.0:1	<2
Gain (dBi)	11dbi	15dbi	17dBi	16.5dBi	19dBi
Polarization	Vertical & horizontal	Vertical & horizontal	Vertical & horizontal	Vertical & horizontal	Vertical & horizontal
Isolation	>30db	>40db	>40db	30db	>40db
Storage Temp	-20°C~70°C	-20°C~70°C	-20°C~70°C	-40°C ~85°C	-20°C~70°C
Operating Temperature	-20°C~60°C	-20°C~60°C	-20°C~60°C	-40°C ~75°C	-20°C~60°C
Antenna Type	Antenna Array	Antenna Array	Antenna Array	2xMMCX	MMCX connector

Dipole Antenna



DRA5G9D-N



DRA6G6D-N



DRA5G7D-N



DRA2G6D-N



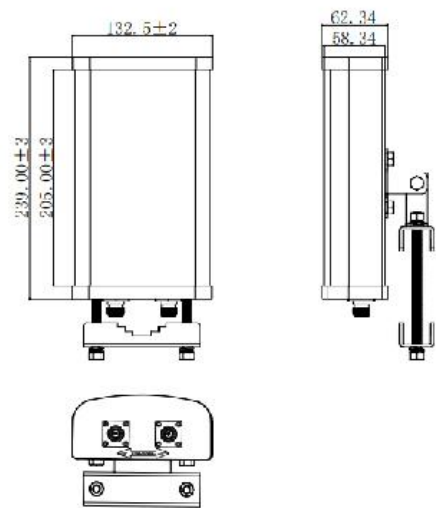
DRA5G7



DRA25

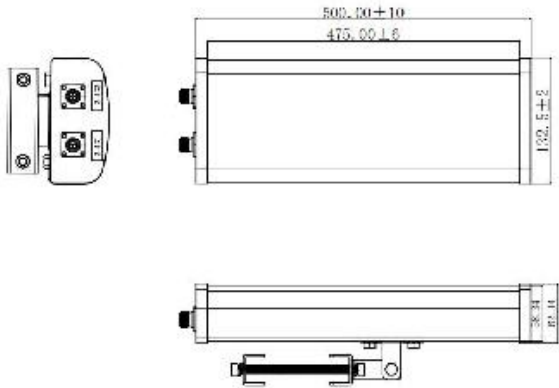
Features	DRA5G9D-N	DRA6G6D-N	DRA5G7D-N	DRA2G6D-N	DRA5G7	DRA25
Frequency	5150~5850MHz	5.9~7.15GHz	5.15~5.85GHz	2400~2500MHz	5.15GHz~5.85GHz	2.4~2.5&5.15~5.85GHz
V.S.W.R	≤3.0	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0
Gain (dBi)	9dBi	6dBi 6G	7dBi 5G	6dBi 2.4G	7.0dBi	6±0.5dBi
Polarization	Vertical	Linear,Vertical	Linear,Vertical	Linear,Vertical	Vertical & Horizontal	Linear,Vertical
Antenna Type	N-Type Plug Male PIN	N-Type Plug Male PIN	N-Type Plug Male PIN	N-Type Plug Male PIN	N-TYPEPLUGStright	N-Type Plug
Storage Temp	-25℃~+75℃	-40℃~+85℃	-25℃~+75℃	-25℃~+75℃	-25℃~+75℃	-25℃~+65℃
Operating Temperature	-20℃~+60℃	-40℃~+85℃	-20℃~+60℃	-20℃~+60℃	-20℃~+60℃	-20℃~+75℃
Impedance with Matching	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω	50 Ω

Sector Antenna



SPECIFICATION
1. Frequency Range: 5.15~5.85G
2. Impedance: 50 Ω
3. VSWR: ≤2.0

Features	DR5G15-90D	DR2G14-90D
Frequency	5.8GHz	2.4~2.5GHz
V.S.W.R	≤2.5	≤2.5
Gain (dBi)	≤17dBi	≤14dBi
Polarization	Horizontal,Vertical	Horizontal,Vertical
Antenna Type	N-TYPE	N-TYPE
Storage Temp	-10℃~+70℃	-10℃~+70℃
Operating Temperature	-10℃~+60℃	-10℃~+60℃
Impedance with Matching	50 Ω	50 Ω



SPECIFICATION
1. Frequency Range: 2.4~2.5GHz*2
2. Impedance: 50 Ω
3. VSWR: ≤2.5
4. Radiation: Omni
5. Gain: ≤14dBi



THANK YOU

sales@wallystech.com

