



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Description

DR-AP6018-S(Outdoor) is a 2x2 2.4G&5G high power Radio AP Router which including

- 1x DR6018-S Board;
- 1x Planar Antenna (5GHz of frequency)
- 1 x Enclosure

Related link :

- Onmi Antenna (2.4GHz of frequency)

<https://www.wallystech.com/Antenna/DRA25-2-4GHz-and-5GHZ-dual-band-OMNI-antenna-6dBi-N-connector-outdoor.html>

POE Adapter

<https://www.wallystech.com/Accessory/PoE-injector-Non-standard-IEEE802.at.html>

Enclosure

- Dimension: 275x 140 x48 mm
- UV Protected and Durable ABS Radome
- IP6 7 Waterproof Level
- Support Wallys PCBA Mainboard

Outlook





DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Absolute Maximum Rating

Parameter	Rating	Unit
Supply Voltage	24V~48V(DC Jack)	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 IPQ6010
CPU Frequency	Quad- core ARM 64 bit A53 @ 1.8 GHz processor
System Memory	512 MB DDR3L 16- bit interface with 32- bit memory bus design
Ethernet Port	1 x 1 Gbps Ethernet Ports & POE 1 x 1 Gbps Ethernet Ports(optional)
POE	24V~48V passive POE/Active POE(Suport 802.3 bt)
DC Jack	24V~48V power supply
LED	Power LED x 1 , Ethernet LED x 2 ; Signal Strength LED x 4
Wireless	On- board 2x2 2.4GHz MU- MIMO OFDMA802 .11 b/g/n/ax, max 27dBm per chain On- board 2x2 5GHz MU-MIMO OFDMA 802 .11 a/n/ac/ax, max 27dBm per chain 4 x MMCX Connectors
Nor Flash	8MB
Nand Flash	256MB
DDR	512MB
Antenna(5 G)	Directional Antenna(17 dbi)
Antenna(2 .4G)	Omni Antenna(6 dbi)(optional)



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Radio TX Specifications(5180MHz-5825MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
5Ghz 802.11ax HE20	MCS0	27 dBm	30 dbm	±2dB
	MCS1	26 dBm	29 dBm	±2dB
	MCS2	26 dBm	29 dBm	±2dB
	MCS3	26 dBm	29 dBm	±2dB
	MCS4	25 dBm	28 dBm	±2dB
	MCS5	24 dBm	27 dBm	±2dB
	MCS6	23 dBm	26 dBm	±2dB
	MCS7	21 dBm	24 dBm	±2dB
	MCS8	20 dBm	23 dBm	±2dB
	MCS9	20 dBm	23 dBm	±2dB
	MCS10	20 dBm	23 dBm	±2dB
5Ghz 802.11ax HE400	MCS0	27 dBm	30 dbm	±2dB
	MCS1	26 dBm	29 dBm	±2dB
	MCS2	26 dBm	29 dBm	±2dB
	MCS3	26 dBm	29 dBm	±2dB
	MCS4	25 dBm	28 dBm	±2dB
	MCS5	24 dBm	27 dBm	±2dB
	MCS6	23 dBm	26 dBm	±2dB
	MCS7	21 dBm	24 dBm	±2dB
	MCS8	20 dBm	23 dBm	±2dB
	MCS9	20 dBm	23 dBm	±2dB
	MCS10	20 dBm	23 dBm	±2dB
5Ghz 802.11ax HE80	MCS0	27 dBm	30 dbm	±2dB
	MCS1	26 dBm	29 dBm	±2dB
	MCS2	26 dBm	29 dBm	±2dB
	MCS3	26 dBm	29 dBm	±2dB
	MCS4	25 dBm	28 dBm	±2dB
	MCS5	24 dBm	27 dBm	±2dB
	MCS6	23 dBm	26 dBm	±2dB
	MCS7	21 dBm	24 dBm	±2dB



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

MCS8	20dBm	23dBm	±2dB
MCS9	20dBm	23dBm	±2dB
MCS10	20dBm	23dBm	±2dB
MCS11	19dBm	22dbm	±2dB



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Radio TX Specifications(2412MHz-2482MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
2.4Ghz 802.11ax HE20	MCS0	27 dbm	30 dbm	±2dB
	MCS1	26 dBm	29 dBm	±2dB
	MCS2	26 dBm	29 dBm	±2dB
	MCS3	26 dBm	29 dBm	±2dB
	MCS4	25 dBm	28 dBm	±2dB
	MCS5	24 dBm	27 dBm	±2dB
	MCS6	23 dBm	26 dBm	±2dB
	MCS7	21 dBm	24 dBm	±2dB
	MCS8	20 dBm	23 dBm	±2dB
	MCS9	20 dBm	23 dBm	±2dB
	MCS10	20 dBm	23 dBm	±2dB
	MCS11	19dbm	22 dbm	±2dB
2.4Ghz 802.11ax HE40	MCS0	27dbm	30 dbm	±2dB
	MCS1	26 dBm	29 dBm	±2dB
	MCS2	26 dBm	29 dBm	±2dB
	MCS3	26 dBm	29 dBm	±2dB
	MCS4	26 dBm	28 dBm	±2dB
	MCS5	25 dBm	27 dBm	±2dB
	MCS6	24 dBm	26 dBm	±2dB
	MCS7	23 dBm	24 dBm	±2dB
	MCS8	20 dBm	23 dBm	±2dB
	MCS9	20 dBm	23 dBm	±2dB
	MCS10	20 dBm	23 dBm	±2dB
	MCS11	19dbm	22 dbm	±2dB



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Antenna:

1) Panel Antenna(include with the enclosure)

Antenna Type: 2 x2 5 G PCBA Antenna

Antenna Gain: 17dbi

VSWR:1.8 Max

Polarization: Vertical & horizontal

Frequency:5.1GHz~5.9GHz

2) DRA25 Antenna(Option)

Electrical Properties :

Frequency Range: 2.4 ~2 .5& 5.15 ~ 5 .85 GHz

Impedance: 50Ω

VSWR: 2 .0 Max (≤2 .0)

Gain(peak): 6 ± 0.5dBi

Polarization: Linear; Vertical

Physical Properties :

Cable: RG-141 Cable

Connector: N- type PLUG

Antenna CAP: ABS

Operating Temp: - 4 0 C~ + 6 5 C

Storage Temp : - 4 0 C~ + 7 5 C

CableTemp: < + 2 5 0 C

3) 2.4G Panel Antenna

Antenna Type: 2 x2 2.4 G PCBA Antenna

Antenna Gain: 11dbi

VSWR: 1 .8 Max





DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Polarization: Vertical & horizontal

Frequency: 2.4GHz~2.5GH


Product Version:

	Product Name	Note	Outlook
1	DR-AP6018-S-5G	5 G 1 1 ax outdoor AP	
2	DR-AP6018-S-DB	Dual band 11ax outdoor AP	



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

3	DR-AP6018-S-2.4G	2.4G 11ax outdoor AP	 A white, rectangular outdoor access point with a black mounting bracket at the bottom.
----------	-------------------------	-----------------------------	--