



DR-AP6018-S(OUTDOOR)

1 1 AX MU- MIMO OFDMA DUALBAND ACCESS POINT

Description

DR- AP6 0 1 8 - S(Outdoor) is a 2 x2 2 . 4 G& 5 G high power Radio AP Router which including 1 x DR6 0 1 8 - S Board; 1 x Onmi Antenna; 1 x POE Adapter(2 4 V¹A~ 4 8 V⁰ . 6 A); 1 x Enclosure.

Enclosure

- Dimension: 275x 140x48mm
- UV Protected and Durable ABS Radome
- IP67 Waterproof Level
- Support Wallys' PCBA Mainboard

Outlook



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	512MB DDR3L 16- bit interface with 32- bit memory bus design
Ethernet Port	1 x 1Gbps Ethernet Ports & POE 1 x 1Gbps Ethernet Ports(optional)
POE	24V~48V passive POE/Active POE(Support 802.3bt)
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 OFDMA802.11b/g/n/ax, max 27dBm per chain On- board 2x2 5GHz MU- MIMO OFDMA 802.11a/n/ac/ax, max 27dBm per chain 4 x MMCX Connectors
Nor Flash	8MB
Nand Flash	256MB
DDR	512MB
Antenna(5G)	Directional Antenna(17dbi)
Antenna(2.4G)	Omni Antenna(6dbi)(optional)

Radio TX Specifications(5180MHz-5825MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
5Ghz 802.11ax HE20	MCS0	27dBm	30dbm	±2dB
	MCS1	26dBm	29dBm	±2dB
	MCS2	26dBm	29dBm	±2dB
	MCS3	26dBm	29dBm	±2dB
	MCS4	25dBm	28dBm	±2dB
	MCS5	24dBm	27dBm	±2dB
	MCS6	23dBm	26dBm	±2dB
	MCS7	21dBm	24dBm	±2dB
	MCS8	20dBm	23dBm	±2dB
	MCS9	20dBm	23dBm	±2dB
	MCS10	20dBm	23dBm	±2dB
	MCS11	19dBm	22dbm	±2dB
5Ghz 802. 11ax HE400	MCS0	27dBm	30dbm	±2dB
	MCS1	26dBm	29dBm	±2dB
	MCS2	26dBm	29dBm	±2dB
	MCS3	26dBm	29dBm	±2dB
	MCS4	25dBm	28dBm	±2dB
	MCS5	24dBm	27dBm	±2dB
	MCS6	23dBm	26dBm	±2dB
	MCS7	21dBm	24dBm	±2dB
	MCS8	20dBm	23dBm	±2dB
	MCS9	20dBm	23dBm	±2dB
	MCS10	20dBm	23dBm	±2dB
	MCS11	19dBm	22dbm	±2dB
5Ghz 802.11ax HE80	MCS0	27dBm	30dbm	±2dB
	MCS1	26dBm	29dBm	±2dB
	MCS2	26dBm	29dBm	±2dB
	MCS3	26dBm	29dBm	±2dB
	MCS4	25dBm	28dBm	±2dB
	MCS5	24dBm	27dBm	±2dB
	MCS6	23dBm	26dBm	±2dB
	MCS7	21dBm	24dBm	±2dB
	MCS8	20dBm	23dBm	±2dB
	MCS9	20dBm	23dBm	±2dB
	MCS10	20dBm	23dBm	±2dB
	MCS11	19dBm	22dbm	±2dB

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Radio TX Specifications(2412MHz-2482MHz)

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

Antenna:

1) Panel Antenna(include with the enclosure)

Antenna Type: 2 x2 5 G PCBA Antenna

Antenna Gain: 17 dBi

VSWR: 1.8 Max

Polarization: Vertical & horizontal

Frequency: 5.1GHz~5.9GHz

2) DRA25 Antenna(Option)

Electrical Properties :

Frequency Range: 2.4 ~2.5 & 5.15~5.85GHz

Impedance: 50Ω

VSWR: 2.0 Max (≤2.0)

Gain(peak) : 6 ± 0.5dBi

Polarization: Linear; Vertical

Physical Properties :

Cable: RG-14.1 Cable

Connector: N-type PLUG

Antenna CAP: ABS

OperatingTemp: -40℃~+65℃

Storage Temp: -40℃~+75℃

CableTemp: < +250℃

3) 2.4G Panel Antenna

Antenna Type: 2 x2 2.4 G PCBA Antenna

Antenna Gain: 11 dBi

VSWR: 1.8 Max

Polarization: Vertical & horizontal

Frequency: 2.4GHz~2.5GHz

Product Version:

	Product Name	Note	Outlook
1	DR-AP6018-S-5G	5G 11ax outdoor AP	
2	DR-AP6018-S-DB	Dual band 11ax outdoor AP	
3	DR-AP6018-S-2.4G	2.4G 11ax outdoor AP	