



# DR4018L\_R

**Access Point Wireless Module**

**Dual band AC Module**

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## **Features**

Featuring with industrial-grade IPQ4018 chipset;  
Integrated with 2x 2.5G Radio module and 2x2 Radio module;  
Support 5.180GHz to 5.825GHz Frequency Range;  
Support 2.412GHz to 2.482GHz;  
Support 2 x 5G UFL Connectors and 2x2.4G UFL;  
20MHz/40MHz/80MHz Bandwidth;  
Support 11ABGN/AC wave2 mode;  
RoHS compliance ensure a high level protection of human health and the environment from risks that can be posed by chemicals

## **Applications**

Security Surveillance  
Commercial radio coverage  
Hotel Wireless application  
Country coverage  
Forest fire protection engineering  
Some special scene application

## **Product Description**

DR4018L\_R based on IPQ4018 chipset is an enterprise wireless module integrated with 2x2.5G Radio module and 2x2.4G 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
Supply Voltage	12	V
Operating Temperature Range	-40 to +70	°C
Storage Temperature Range	-65 to +105	°C
Operating Humidity Range	5 to +95 (non-condensing)	%
Storage Humidity Range	0 to +90 (non-condensing)	%

## Hardware Specifications

Symbol	Parameter
CPU	IPQ4018
Antenna Connector	4xUFL
10/100/1000Mbps Gigabit Ethernet	5xRJ45
SFP connector	NO
3G/4G connector	NO
USB connector	1xUSB 3.0 connector
POE	NO
DC Jack	12 power supply
ROHS Compliance	YES
Dimension	NA
Max Power	15W

## Radio TX Specifications(5180MHz-5825MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
802.11a	6 Mbps	20dBm	23dbm	±2dB
	54 Mbps	18dBm	21dbm	±2dB
802.11n HT20	MCS0, MCS8	19dBm	22dbm	±2dB
	MCS7, MCS15	17dBm	20dbm	±2dB
802.11n HT40	MCS0, MCS8	19dBm	22dbm	±2dB
	MCS7, MCS15	17dBm	20dbm	±2dB
802.11ac	MCS0, MCS10, MCS20	19dBm	22dbm	±2dB
	MCS9, MCS19, MCS29	16dBm	19dbm	±2dB

## Radio RX Specifications(5180MHz-5825MHz)

Operating Mode	Data Rate	Sensitivity
802.11a	6 Mbps	-93dBm
	54 Mbps	-78dBm
802.11n HT20	MCS0, MCS8	-92dBm
	MCS7, MCS15	-73dBm
802.11n HT40	MCS0, MCS8	-90dBm
	MCS7, MCS15	-70dBm
802.11AC HT40	MCS0, MCS10,MCS20	-90dBm
	MCS9,MCS19,MCS29	-67dBm
802.11AC HT80	MCS0, MCS10,MCS20	-88dBm
	MCS9,MCS19,MCS29	-62dBm

## Radio TX Specifications(2412MHz-2482MHz)

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
802.11a	6 Mbps	22dBm	25dbm	±2dB
	54 Mbps	21dBm	24dbm	±2dB
802.11n HT20	MCS0, MCS8	22dBm	25dbm	±2dB
	MCS7, MCS15	20dBm	23dbm	±2dB
802.11n HT40	MCS0, MCS8	22dBm	25dbm	±2dB
	MCS7, MCS15	20dBm	23dbm	±2dB
802.11ac	MCS0, MCS10,MCS20	22dBm	25dbm	±2dB
	MCS8,MCS18,MCS28	19dBm	22dbm	±2dB

## Radio RX Specifications(2412MHz-2482MHz)

Operating Mode	Data Rate	Sensitivity
802.11a	6 Mbps	-93dBm
	54 Mbps	-78dBm
802.11n HT20	MCS0, MCS8	-92dBm
	MCS7, MCS15	-73dBm
802.11n HT40	MCS0, MCS8	-90dBm
	MCS7, MCS15	-70dBm
802.11AC HT40	MCS0, MCS10,MCS20	-90dBm
	MCS9,MCS19,MCS29	-62dBm