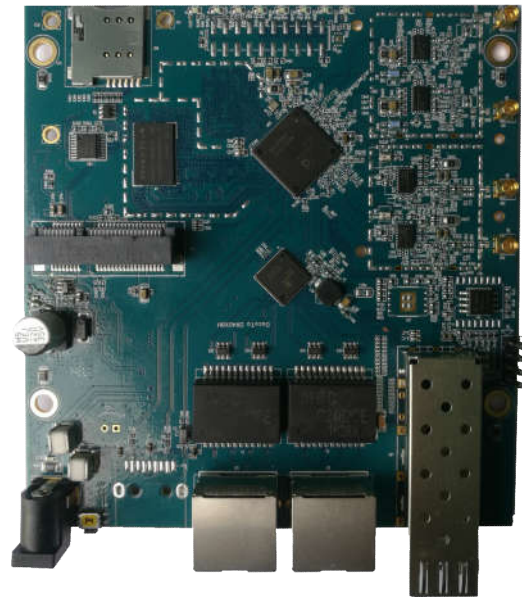


## Features

- Featuring with industrial-grade IPQ4018 chipset
- Integrated with 2x 2.5G high power (27dbm per chain) Radio module and 2x2 2.4G high power (27dbm per chain) Radio module
- Support 5180GHz to 5.825GHz Frequency Range;
- Support 2.412GHz to 2.482GHz
- Support 2 x 5G MMCX Connectors and 2x2.4G MMCX
- 20MHz/40MHz/80MHz Bandwidth
- Support 11ABGN/AC
- 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

DR4018H based on IPQ4018 chipset is an enterprise wireless module integrated with 2x2 5G high power Radio module and 2x2 2.4G high power 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	24V~48	V
Operating Temperature Range	-40 to +60	°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(Quad core ARM Cortex A7 at 710 MHz)
Antenna Connector	2 x 5G MMCX connectors;2x2.4G MMCX
10/100/1000Mbps Gigabit Ethernet	2xRJ45
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
ROHS Compliance	YES
Dimension	115mm x 105mm x 16mm
Nor Flash	2MB~32MB
Nand Flash	128MB
DDR	256MB

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

Operating Mode	Data Rate	Power		Tolerance
		1 Chain	2 Chains	
802.11a	6 Mbps	27dBm	30dbm	±2dB
	54 Mbps	23dBm	26dbm	±2dB
802.11n HT20	MCS0, MCS8	26dBm	29dbm	±2dB
	MCS7, MCS15	22dBm	25dbm	±2dB
802.11n HT40	MCS0, MCS8	25dBm	28dbm	±2dB
	MCS7, MCS15	21dBm	24dbm	±2dB
802.11ac	MCS0, MCS10,MCS20	25dBm	28dbm	±2dB
	MCS9,MCS19,MCS29	19dBm	22dbm	±2dB

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

Operating Mode	Data Rate	Sensitivity
802.11a	6 Mbps	-96dBm
	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	
802.11g	6 Mbps	27dbm	30dbm	±2dB
	54 Mbps	25dbm	28dbm	±2dB
802.11n HT20	MCS0, MCS8	26dbm	29dbm	±2dB
	MCS7, MCS15	25dbm	28dbm	±2dB
802.11n HT40	MCS0, MCS8	26dbm	29dbm	±2dB
	MCS7, MCS15	24dbm	27dbm	±2dB

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

Operating Mode	Data Rate	Sensitivity
802.11g	6 Mbps	-96dBm
	54 Mbps	-78dBm
802.11n HT20	MCS0, MCS8	-92dBm
	MCS7, MCS15	-73dBm
802.11n HT40	MCS0, MCS8	-90dBm
	MCS7, MCS15	-70dBm

## DIMENSION DRAWING

