



# DacoTa DR4018L

Access Point Wireless Module

Dual band 11AC Wave2 Module

## 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 based on IPQ4018 chipset is an enterprise wireless module integrated with 2x2 5G Radio module and 2x2 2.4G 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	24V~56V	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(Quad core ARM Cortex A7 at 710 MHz)
Antenna Connector	2xMMCX or 2x UFL
10/100/1000Mbps Gigabit Ethernet	2xRJ45
SFP connector	NO
3G/4G connector	NO
USB connector	1xUSB 2.0 connector (optional)
POE	DR4018L: 802.3at POE 36V~56V DR4018L-P: passive POE 24V~52V
DC Jack	24V~48V power supply
ROHS Compliance	YES
Dimension	115mm x 105mm x 16mm
Max Power	15W
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	24dBm	27dbm	±2dB
	54 Mbps	21dBm	24dbm	±2dB
802.11n HT20	MCS0, MCS8	24dBm	27dbm	±2dB
	MCS7, MCS15	20dBm	23dbm	±2dB
802.11n HT40	MCS0, MCS8	24dBm	27dbm	±2dB
	MCS7, MCS15	20dBm	23dbm	±2dB
802.11ac	MCS0, MCS10, MCS20	24dBm	27dbm	±2dB
	MCS9, MCS19, MCS29	19dBm	22dbm	±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	
802.11g	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

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

Operating Mode	Data Rate	Sensitivity
802.11g	6 Mbps	-93dBm
	54 Mbps	-78dBm
802.11n HT20	MCS0, MCS8	-92dBm
	MCS7, MCS15	-73dBm
802.11n HT40	MCS0, MCS8	-90dBm
	MCS7, MCS15	-70dBm

## Production Version

Version	Feature
DR4018L	<ol style="list-style-type: none"> <li>1) <b><u>Support 4*MMCX connector</u></b></li> <li>2) The Maximum transmit power is 27dbm at 5G; 25dbm at 2.4G</li> <li>3) <b><u>Support 802.3at active POE</u></b></li> <li>4) Support 2*Gigabit port</li> </ol>
DR4018L-PF	<ol style="list-style-type: none"> <li>1) <b><u>Support 4*UFL connector</u></b></li> <li>2) The Maximum transmit power is 27dbm at 5G; 25dbm at 2.4G</li> <li>3) <b><u>Support Passive POE (24V~52V)</u></b></li> <li>4) Support 2*Gigabit port</li> </ol>
DR4018L-PT	<ol style="list-style-type: none"> <li>1) <b><u>Support 2*UFL connector</u></b></li> <li>2) The Maximum transmit power is 27dbm at 5G; 25dbm at 2.4G</li> <li>3) <b><u>Support Passive POE (24V~52V)</u></b></li> <li>4) Support 2*Gigabit port</li> </ol>