

# M0351

**2x2 5GHz 802.11n/ac Module**

## Product Feature



- QCA9886 Single-Band 2x2 MIMO 802.11 a/n/ac WLAN SoC
- CC-M0351 Supports low-power Mini-PCIe1.1 interface.
- Provides a highly integrated WLAN system-on-chip (SoC) for 2x2 5 GHz 802.11n/ac WLAN applications.
- Supports 20 MHz, 40 MHz and 80 MHz at 5 GHz.
- Operates on one 3.3-volt power supply and one 5.0-volt power supply.
- Radio Interface:2\*UFL.
- 48 MHz reference clock.
- Available in a standard Mini-PCIe package.
- Uses an external FEM to support high output power and rapid sensitivity.

# Pin Description

Pin#	Pin Name	I/O	Description
1	WAKE_L	OD	PCIE request to service a function-initiated wake event
2	3.3V	Power	3.3V POE/1A①
3	RESERVED	NC	Chip power down control
4	GND	GND	GND
5	RESERVED	NC	
6	RESERVED	NC	
7	CLKREQ_L	OD	PCIE reference clock requests
8	RESERVED	NC	
9	GND	GND	GND
10	RESERVED	NC	
11	REFCLK-	I/O	Differential reference clock
12	RESERVED	NC	
13	REFCLK+	I/O	Differential reference clock
14	RESERVED	NC	
15	GND	GND	GND
16	RESERVED	NC	
17	RESERVED	NC	
18	GND	GND	GND
19	RESERVED	NC	
20	W_DISABLE_L	I/O	Active low signal
21	GND	GND	GND
22	PERST_L	I	PCIE reset
23	PERN0	DATA	Differential transmit data
24	3.3VAUX	Power	3.3V POE /1A①
25	PERP0	DATA	Differential transmit data
26	GND	GND	GND
27	GND	GND	GND
28	RESERVED	NC	
29	GND	GND	GND
30	RESERVED	NC	
31	PETN0	DATA	Differential receive data
32	RESERVED	NC	
33	PETP0	DATA	Differential receive data
34	GND	GND	GND
35	GND	GND	GND
36	RESERVED	NC	

37	RESERVED	NC	
38	RESERVED	NC	
39	RESERVED	NC	
40	GND	GND	GND
41	RESERVED	NC	
42	RESERVED	NC	
43	GND	GND	GND
44	LED_WLAN_L	NC	GPIO17 ( TBD )
45	PA_5V	Power	5V POE /1A②
46	RESERVED	NC	
47	PA_5V	Power	5V POE /1A②
48	RESERVED	NC	
49	PA_5V	Power	5V POE /1A②
50	GND	GND	GND
51	PA_5V	Power	5V POE /1A②
52	3.3V	Power	3.3V POE /1A①

Remark:

① 3.3V/1A Power Supply in Pin2 、 Pin24、 Pin52

② 5V/1A Power supply in Pin45 、 Pin 47、 Pin 49、 Pin 51。

## Electrical Characteristics

RF Output Power vs Data rate list as below:

TX Power				Sensitivity		
	Date Rate	Avg. TX	Tolerance	Data Rate	Sensitivity	Tolerance
11a/n	6 Mbps	24dBm	+/- 2dBm	6 Mbps	-93dBm	+/- 2dBm
	54 Mbps	22dBm	+/- 2dBm	54 Mbps	-75dBm	+/- 2dBm
	HT20 MCS0((combination))	27dBm	+/- 2dBm	HT20 MCS0	-93dBm	+/- 2dBm
	HT20 MCS7((combination))	24dBm	+/- 2dBm	HT20 MCS7	-72dBm	+/- 2dBm
	HT40 MCS0((combination))	27dBm	+/- 2dBm	HT40 MCS0	-90dBm	+/- 2dBm
	HT40 MCS7((combination))	24dBm	+/- 2dBm	HT40 MCS7	-70dBm	+/- 2dBm
11ac	VHT20 MCS0((combination))	27dBm	+/- 2dBm	VHT20 MCS0	-93dBm	+/- 2dBm
	VHT20 MCS8((combination))	23dBm	+/- 2dBm	VHT20 MCS8	-69dBm	+/- 2dBm
	VHT40 MCS0((combination))	27dBm	+/- 2dBm	VHT40 MCS0	-89dBm	+/- 2dBm
	VHT40 MCS9((combination))	23dBm	+/- 2dBm	VHT40 MCS9	-66dBm	+/- 2dBm
	VHT80 MCS0((combination))	27dBm	+/- 2dBm	VHT80 MCS0	-87dBm	+/- 2dBm
	VHT80 MCS9((combination))	23dBm	+/- 2dBm	VHT80 MCS9	-62dBm	+/- 2dBm

# Mechanical Information

