

# COREXOM R405LQ LR MODULE DATASHEET

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P/N: SP.F1J01G005



# **Revision History**

Rev.	Date	Description				
0.0	2024/03/27	Draft				
0.1	2024/04/01	Model name updated				
0.2	2024/06/25	P2. Updated Key SW function name				
		(valid start from FW versions 0.0.70 and 2.0.6)				
0.3	2024/07/03	P2. Add new item #19 to explain the function of PJ1 Conn				
0.41	2024/11/01	Change P/N group number from 80. to SP.				
		Add new section 1.3 MIMO RF Channels' configuration				
		Modify section 4.1 Product Marking, add NCC and P/N Labels				
0.5	2025/01/10	Following cricfg tool Menu items to adjustment				
		Add criwifitool shell command to get RSSI information in				
		section 2.1.4 and Connection Status in section 2.2.2				
0.6	2025/05/23	Updated section 1.1 Operation Temp. up range and condition				
		Add command to read RSSI at STA in section 2.2.2				
0.7	2025/07/03	Add new section 3.1 RF Characteristics				
0.8	2025/08/08	Add new section 6 Compliance Statements				
0.8.1	2025/09/30	<ul> <li>PCB revision changed as V04, to add Vbus voltage supply circuit</li> </ul>				
		for Micro-USB Conn, and new section 1.4 as explanation.				
		Change P/N become SP:F1J01G005				

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# **About This Document**

- Illustrations in this documentation might look different from your product.
- Depending on the model, some optional accessories, features, and software programs might not be available on your device.
- Depending on the version of operating systems and programs, some user interface instructions might not be applicable to your device.
- Documentation content is subject to change without notice. Coretronic Reality Inc. (CRI)
  makes constant improvements on the documentation of your computer, including this
  guidebook.

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# 1. Introduction

CRI R405LQ LR Module is a high performance wireless network device, and leverage WiFi technology to implement long distance connection and data communication. It can through USB or UART to connect with Host controller, and work similar as external WiFi network module. The R405LQ can support RNDIS (Remote Network Driver Interface Specification) standard as module interface control.

When using R405LQ LR to build up connection network, please need to set up one of R405LQ LR as AP mode (default), and others R405LQ LR are set as STA (Cline) mode. They are communicate working in closed network areas.

## 1.1 Features and Specification

The following table shows the detailed features and Spec. of R405LQ LR module.

Key features of R405LQ LR module

Item	Description
Platform	Qualcomm QCS405 + QCN9074
Technology	Leverage Wi-Fi 6 (802.11ax)
MIMO	4T4R
Eroguenov	• 2412MHz~2462MHz
Frequency	• 5180MHz~5240MHz / 5745MHz~5825MHz
RF signal B.W	5MHz / 10MHz / 20MHz
Throughput	240 Mbps (TBC)
Dadia Tu Davian	● ≦ 24dBm @ 2.4GHz
Radio Tx Power	● ≦ 24dBm @ 5GHz
Distance	> 10KM (Open space without distractions)
	1. USB 3.0 (Type C)
Connection	2. USB 2.0 (Micro USB, for FW UD)
Connection Interfaces	3. UART x2 (1.8V)
interraces	4. UART x1 (3.3V, for Debug only)
	5. Buttons x6
Power Supply	DC 6.6V~17V via Power Jack
	• 2.4GHz 4T4R Tx < 9.8W
Power	• 2.4GHz 4T4R Rx < 4.0W
Consumption	● 5GHz 4T4R Tx < 13.8W
	● 5GHz 4T4R Rx < 4.5W
Dimension	60 x 72 x 9.9 mm

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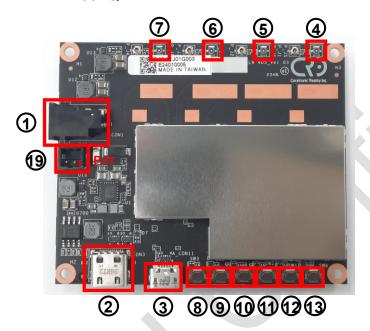


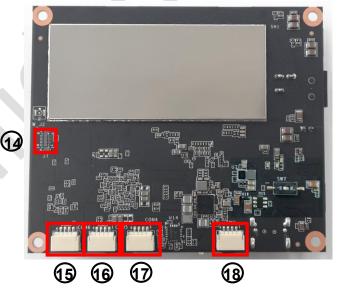
Item	Description
Weight	Around 21 g
Operation Temp.	-20 ~ 45 °C (attach with heat-sink surface area > $32800 \text{ mm}^2$ )
Storage Temp.	-20 ~ 70 °C
Device Driver	RNDIS (Remote Network Driver Interface Specification)

**Notice**: When using, be sure to connect the antenna as a load at the antenna terminal to prevent no-load reflection from damaging the PA.

## 1.2 Major interface components location

Below picture identify the major interface components and connectors found on the R405LQ LR module





No.	Function Description	No.	Function Description
1	DC Power Jack	11	Key SW, FAST BOOT MODE *1
2	USB 3.0 Type C	12	Key SW, N/A
3	USB 2.0 Micro (for FW UD)	13	Key SW, USB BOOT *1
4	RF Conn, Chain 1	14	JTAG (for Debug only)
5	RF Conn, Chain 2	15	UART (1.8V, CON6)
6	RF Conn, Chain 3	16	UART (1.8V, CON5)
7	RF Conn, Chain 4	17	UART (3.3V, for Debug only, CON4)
8	Key SW, Power	18	USB 2.0 (ALT with #3 for FW UD, CON7)
9	Key SW, Volume up +	19	Option Power Conn PJ1 *2
10	Key SW, Volume down -		(Hirose, DF3-2P-2DSA(01))

<sup>\*1</sup> Keep pressing during power on entry

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<sup>\*2</sup> pin-1 : DC power in, pin-2 : GND



## 1.3 MIMO RF Channels' configuration

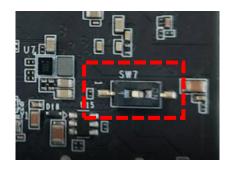
R405LQ module can be configured MIMO models listed in below

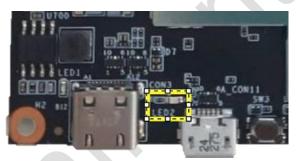
	CH1	CH2	CH3	CH4
2T/2R	TX/RX	NA	TX/RX	NA
2T/4R	TX/RX	RX	TX/RX	RX
4T/4R	TX/RX	TX/RX	TX/RX	TX/RX

RF Antenna Connect type: I-PEX MHF4, P/N: 20449-001E-03

## 1.4 VBus voltage supply for Micro-USB

The Micro-USB port can option to supply VBus voltage (5V, 900mA) for external devices after plugin. The DIP switch SW7 is located at bottom side which is decided VBus voltage has been supplied (default, OFF), or not supply (at ON). If VBus voltage is supplied, the LED2 will be turned ON (light) which is beside of Micro-USB Conn at module top side. Please refer below picture.





# 2. Device Tools Operation

This chapter introduces the detail setup and testing steps of R405LQ LR Module build in configuration tools, and via PC's connection and operation. Please install the ADB (Android Debug Bridge) environment in your PC at first, then refer <u>section 1.2</u> to setup R405LQ LR Module and connected with PC via USB cable.

Please use the "adb devices" command to check whether the R405LQ LR module is successfully connected to the PC? Then use the "cricfg" command to enter the device tool's control menu of R405LQ LR Module.

```
D:\>adb devices
List of devices attached
238 device
D:\>adb shell
/ # cricfg
```

## 2.1 AP mode Menu operation

R405LQ LR EVA KIT can be configured as AP (Access Point) mode or STA (Station, Cline) mode through System Menu setup. This section introduces when R405LQ LR is configured as AP mode then re-power on. After connected with ADB PC, and enter "cricfg" command. The items select Menu will be shown on ADB PC as below.

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#### 2.1.1 Settings (SSID)

When enter "1" at top menu, then into "SAP - settings" menu.

You can enter "1" again to get current SSID and Password set

Or, enter "2" to setup new SSID and Password.



Or, enter "0" will exit to go back top Menu

#### 2.1.2 Switch Channel and Bandwidth

When enter "2" at top menu, then into "SAP - Switch Channel / Bandwidth" menu.

The current Channel and Bandwidth information are shown at top line, or enter "1" to change the Channel number, or enter "2" to change Channel Bandwidth. Or, enter "3" to change Channel and Bandwidth in the same time.

Or, enter "0" will exit to go back top Menu



#### 2.1.3 Advance Setting (CBS / SBS)

When enter "3" at top menu, then into "SAP – Advance setting (CBS/SBS)" menu.

```
*~*~*~*~*~*~*~*~*CRI Wi-Fi Config Tool - Menu ~*~*~*~*~*~*~*~*~*
Advance setting
1. [ ] Auto Channel Selection (5 GHz)
2. [ ] Auto Channel Selection (2.4 GHz)
3. [ ] DCS+CBS: 2.4 GHz and 5 GHz non-DFS channels
4. [ ] DCS+SBS All 5 GHz channels
0: Exit or Return to the Upper Level Directory.

Please enter the operation number to be performed:
```

You can choose suitable item to decide channel frequency hopping range depend on RF usage.

For example, enter "3" to enable DCS+CBS frequency hopping range

(You can choose active item again to disable)

#### 2.1.4 Get RSSI

When enter "6" at top menu, then can get RSSI information shows in below as reference depend on R405LQ LR working environment and situation.

```
AID CHAN TXRATE RXRATE RSSI MINRSSI MAXRSSI IDLE TXSEQ RXSEQ CAPS XCAPS ACAPS
 ODR AID CHAN TARATE TAGOTE SOCIEME IE
STATE MAXRATE(DOT11) HTCAPS VHTCAPS ASSOCTIME IE
50 -52
                                                      IEs MODE RXNSS TXNSS
52 -51 27 0
                                                                                                   PSMODE
44:a8:42:ff:46:df
                                    17M -51
                                                                               65535
                                                                                             ETWt NULL
              286800
                                                 1gTRs 00:04:05
                                                                     WME IEEE80211_MODE_11AXA_HE20
 RSSI is combined over chains in dBm
 Minimum Tx Power
                                  : 0
 Maximum Tx Power
                                   0
 HT Capability
                                   Yes
 VHT Capability
                                   Yes
 MU capable
                                   No
 SNR
                                   42
 Operating band
                                      5GHz
 Current Operating class
                                  : 81 82 83 84 115 116 117 118 119 120 121 122 123 124 125 126
 Supported Operating classes
 127 128 130
 Supported Rates
                                  : 12 18 24 36 48 72 96 108
                                   IEEE80211_MODE_11AXA_HE20
Max STA phymode 00:03:7f:06:00:22
                                                    -15
                                                                           0
                                                                               65535
                                                                                         Es ETWt NULL
                                                 1gTRs 00:04:04
                                                                     WME IEEE80211_MODE_11NA_HT20 4 2
```

BTW, except to through cricfg tool Menu choose to get RSSI information, user can also through criwifitool shell command to get RSSI information.

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./vendor/cri/wifi/sh/criwifitool.sh getRSSI

Connected: STA mac address, RSSI

```
root@qcs405-pine:/# ./vendor/cri/wifi/sh/criwifitool.sh getRSSI
44:a8:42:ff:46:ff,-39
```

#### 2.1.5 Throughput Test

When enter "7" at top menu, then into "SAP – Throughput Test" menu

Choose the throughput test item number to perform the test as requirement, and result shows in below as reference

```
1.01-2.01
                     sec 14.5 MBytes
                                         122 Mbits/sec 1860
                                                                (omitted)
                                         121 Mbits/sec 1840
        2.01-3.00
                    sec 14.4 MBytes
                                                                (omitted)
        0.00-1.00 sec 14.2 MBytes 119 Mbits/sec 1820
  4]
  4]
        1.00-2.01 sec 14.5 MBytes 121 Mbits/sec 1850
   4]
        2.01-3.01 sec 13.4 MBytes 112 Mbits/sec 1710
        3.01-4.00 sec 14.4 MBytes 121 Mbits/sec 1840
       4.00-5.00 sec 14.2 MBytes 119 Mbits/sec 1820 5.00-6.00 sec 14.1 MBytes 118 Mbits/sec 1800 6.00-7.00 sec 13.8 MBytes 115 Mbits/sec 1760
   4]
   4]
  4]
        7.00-8.00 sec 13.2 MBytes 111 Mbits/sec 1690
  4]
        8.00-9.01 sec 13.4 MBytes 112 Mbits/sec 1710
        9.01-10.00 sec 13.9 MBytes 117 Mbits/sec 1780
[ ID] Interval
[ 4] 0.00-10
[ 4] Sent 1778
                          Transfer Bandwidth
                                                         Jitter
                                                                    Lost/Total Datagrams
      0.00-10.00 sec 139 MBytes 117 Mbits/sec 0.664 ms 0/17780 (0%)
  4] Sent 17780 datagrams
iperf Done.
*~*~*~*~*~*~*~* CRI Wi-Fi Config Tool - SAP throughput test ~*~*~*~*~*~*
 1: TCP: iperf 10 seconds
 2: TCP: iperf 60 seconds
3: TCP: assign time
4: UDP: iperf 10 seconds
 5: UDP: iperf 60 seconds
6: UDP: assign time
 0. Exit.
```



#### 2.2 STA (Cline) mode Menu operation

This section introduces when R405LQ LR is configured as STA (Cline) mode then repower on. After connected with ADB PC, and enter "cricfg" command. The below items select Menu will shows on ADB PC.

#### 2.2.1 STA (Cline) Setting

When enter "1" at top menu, then into "STA - Settings" menu.

```
STA Settings

1: STA Mode: Show WPA supplicant network Info.

2: STA Mode: Get Connected SSID And PSK.

3: STA Mode: Add new SSID And PSK.

4: STA Mode: Remove Saved SSID.

5: STA Mode: List the Actived WPA supplicant.

0. Exit or Return to the Upper Level Directory.

Please enter the operation number to be performed: ______
```

You can enter "2" to get current connected SSID of AP

```
Current current connection, ssid: CRIssidJeff

STA Settings

1: STA Mode: Show WPA supplicant network Info.
2: STA Mode: Get Connected SSID And PSK.
3: STA Mode: Add new SSID And PSK.
4: STA Mode: Remove Saved SSID.
5: STA Mode: List the Actived WPA supplicant.

0. Exit or Return to the Upper Level Directory.

Please enter the operation number to be performed: 2_
```



Or, enter "5" to get the list of active WPA supplicant which shows as below picture as reference.

#### 2.2.2 STA Connection status

When enter "4" at top menu, then get current W405LQ LR Cline connection information.

```
*~*~*~*~*~*~*~*~ CRI Wi—Fi Config Tool — Menu
 1: STA - Scan the Available Hotspots
 2: STA - Settings
 3: STA - Service Switch (on/off)
4: STA - Connection status
5: STA - Throughput test
   System Menu
91: System - Enable device as SAP mode.
92: System - Enable device as STA mode.
93: System - Enable iperf service.
95: Device Info
99: Factory Reset.
0. Exit or Return to the Upper Level Directory.
Please enter the operation number to be performed: 4_
Connected to 46:a8:42:ff:46:a8 (on ath1)
        SSID: CRIssidJeff
        freq: 5220
```

BTW, except to through cricfg tool Menu choose to get Connection status, user can also through criwifitool shell command to get.

./vendor/cri/wifi/sh/criwifitool.sh getConnStat

- Connected: return 1, SAP mac address
- disconnected: return 0

```
/ # ./vendor/cri/wifi/sh/criwifitool.sh getConnStat
1,46:a8:42:ff:46:dd
```



And, through below command to get RSSI value. iwlist ath1 ap

#### 2.2.3 STA Throughput Test

When enter "5" at top menu, then into "STA – Throughput Test" menu

Choose the throughput test item number to perform the test as requirement, and result shows in below as reference

```
run: iperf3 10 seconds in UDP.
♦♦eU
Connecting to host 192.168.1.1, port 5201
  4] local 192.168.1.2 port 46308 connected to 192.168.1.1 port 5201
 ID] Interval
                        Transfer
                                     Bandwidth
                                                     Total Datagrams
                                                           (omitted)
  4]
       0.00-1.00
                        11.6 MBytes 96.9 Mbits/sec
                                                     1480
                   sec
                       13.8 MBytes
                                                    1770
  4]
                                      116 Mbits/sec
                                                           (omitted)
       1.00-2.00
                   sec
                       18.9 MBytes
       2.00-3.00
                   sec
                                      158 Mbits/sec
                                                     2420
                                                           (omitted)
       0.00-1.00
                   sec 19.5 MBytes
                                      163 Mbits/sec
                                                     2490
                   sec 18.3 MBytes
                                    154 Mbits/sec 2340
  4]
       1.00-2.00
  4]
                   sec 21.8 MBytes
       2.00-3.00
                                     183 Mbits/sec
                                                    2790
  4]
       3.00-4.00
                   sec 16.3 MBytes
                                     137 Mbits/sec
       4.00-5.00
                       20.2 MBytes
                                      170 Mbits/sec
                                                    2590
                   sec
  4]
                        20.0 MBytes
                                      168 Mbits/sec
       5.00-6.00
                                                     2560
                   sec
  41
                        20.2 MBytes
                                                     2580
       6.00-7.00
                                      169 Mbits/sec
                   sec
  4]
       7.00-8.00
                        20.2 MBytes
                                      170 Mbits/sec
                                                     2590
                   sec
                   sec 17.5 MBytes
  4]
       8.00-9.01
                                      146 Mbits/sec 2240
  4]
                                      119 Mbits/sec 1800
       9.01-10.00 sec
                       14.1 MBytes
 ID] Interval
                        Transfer
                                     Bandwidth
                                                     Jitter
                                                               Lost/Total Datagrams
                        188 MBytes
                                    158 Mbits/sec 0.718 ms
                                                              1081/24064 (4.5%)
       0.00-10.00 sec
  4] Sent 24064 datagrams
iperf Done.
```

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#### 2.3 System Menu operation

The "System Menu" are common supported by both AP mode and STA (Cline) mode of R405LQ LR.

```
System Menu
91: System - Set device as SAP mode.
92: System - Set device as STA mode.
93: System - [ ] iperf service.
94: System - ANT configuration
95: Device Info
99: Factory Reset. (Reset Wi-Fi functionality only)
0: Exit or Return to the Upper Level Directory.
Please enter the operation number to be performed:
```

#### 2.3.1 System - Enable device as SAP mode

When enter "91" at top menu, then R405LQ LR module will be configured as AP mode, and disable STA (Cline) mode.

Note: The system only changes the configuration file. To complete the change mode, you need to restart the device.

#### 2.3.2 System – Enable device as STA mode

When enter "92" at top menu, then R405LQ LR module will be configured as STA (Cline) mode, and disable AP mode

Note: The system only changes the configuration file. To complete the change mode, you need to restart the device.

#### 2.3.3 System - Enable iperf service

When enter "93" at top menu, then R405LQ LR module will enable iperf service. After enable iperf service, the R405LQ LR can perform to response specified iperf test package on network. You can choose active item again to disable test service.

```
93: System – [ 🌘 ] iperf service.
```

#### 2.3.4 Device Info

#### 2.3.5 Factory Reset



#### 2.4 Throughput test by paired 2 sets EVA Kit

This chapter will introduce how to use 2 sets EVA Kit, one is setup as AP mode, and another one is setup as STA mode, then through R405LQ module build in tools to perform "iperf" throughput test as evaluation case.

#### 2.4.1 Setup at AP side

- A. Please refer <u>chapter 2.3.1</u> System Menu 91 operation to setup 1<sup>st</sup> EVA Kit as AP mode. Please re-power off/on once mode has been changed.
- B. Please refer chapter 2.3.3 System Menu 93 operation to Enable iperf service.

#### 2.4.2 Setup at STA (Cline) side

- A. Please refer <u>chapter 2.3.2</u> System Menu 92 operation to setup 2<sup>nd</sup> EVA Kit as STA (Cline) mode. Please re-power off/on once mode has been changed.
- B. Please refer chapter 2.3.3 System Menu 93 operation to Enable iperf service
- C. Please refer <u>chapter 2.2.2</u> STA Menu 4, to check WiFi connection status, and confirmed WiFi has been connected.

#### 2.4.3 Perform iperf test

- A. Please refer <u>chapter 2.2.3</u> STA Menu 5, to enter STA Throughput Test Menu. Then, choose the test item which you would like to do?
- B. For example, after enter 4, then the test result of "UDP: iperf 10 second" will be shown like below picture.

```
run: iperf3 10 seconds in UDP.
♦♦eU
Connecting to host 192.168.1.1, port 5201
  4] local 192.168.1.2 port 46308 connected to 192.168.1.1 port 5201
  ID] Interval
                          Transfer
                                       Bandwidth
                                                        Total Datagrams
                                       96.9 Mbits/sec
                                                              (omitted)
  4]
        0.00-1.00
                         11.6 MBytes
                                                        1480
                    sec
  4]
        1.00-2.00
                         13.8 MBytes
                                        116 Mbits/sec
                                                       1770
                                                              (omitted)
                    sec
                         18.9 MBytes
  4]
        2.00-3.00
                                        158 Mbits/sec
                                                       2420
                                                              (omitted)
                    sec
                         19.5 MBytes
       0.00-1.00
                                        163 Mbits/sec
                                                        2490
                    sec
                         18.3 MBytes
        1.00-2.00
                                        154 Mbits/sec
                                                        2340
                    sec
        2.00-3.00
                    sec 21.8 MBytes
                                        183 Mbits/sec
                                                        2790
        3.00-4.00
                         16.3 MBytes
                                        137 Mbits/sec
                                                        2090
                    sec
       4.00-5.00
                         20.2 MBytes
                                        170 Mbits/sec
                                                        2590
                    sec
  4]
                         20.0 MBytes
        5.00-6.00
                                        168 Mbits/sec
                                                        2560
                    sec
  4]
        6.00-7.00
                         20.2 MBytes
                                        169 Mbits/sec
                                                        2580
                    sec
  4]
        7.00-8.00
                         20.2 MBytes
                                        170 Mbits/sec
                                                        2590
                    sec
        8.00-9.01
                         17.5 MBytes
                                        146 Mbits/sec
  4]
                                                        2240
                    sec
                                        119 Mbits/sec
  4]
        9.01-10.00
                                                       1800
                    sec
                         14.1 MBytes
 ID]
     Interval
                                                       Jitter
                         Transfer
                                       Bandwidth
                                                                  Lost/Total Datagrams
  4]
                          188 MBytes
        0.00-10.00 sec
                                        158 Mbits/sec 0.718 ms 1081/24064 (4.5%)
  4] Sent 24064 datagrams
iperf Done.
```

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# 3. RF Characteristics

## 3.1 2.4G Band

HE20MHz, MCS0

item	contents			
Specification	IE	IEEE802.11ax-2.4GHz		
Mode	OFDM			
Channel frequency (spacing)	y) 2412 to 2462 MHz			<u>z</u>
Transmitter	Min.	Тур.	Max.	unit
Power Levels		24		dBm
Receiver (PER<10%)	Min.	Тур.	Max.	unit
Minimum Input Level		-94		dBm

## HE10MHz, MCS0

item	contents			
Specification	IEEE802.11ax-2.4GHz			Hz
Mode	OFDM			
Channel frequency (spacing)	2412 to 2462 MHz			2
Transmitter	Min.	Тур.	Max.	unit
Power Levels		24		dBm
Receiver (PER<10%)	Min.	Тур.	Max.	unit
Minimum Input Level		-96		dBm

# HE5MHz, MCS0

item	contents			
Specification	ecification IEEE802.11ax-2.4			Hz
Mode	OFDM			
Channel frequency (spacing)	2412 to 2462 MHz			Z
Transmitter	Min.	Тур.	Max.	unit
Power Levels		24		dBm
Receiver (PER<10%)	Min.	Тур.	Max.	unit
Minimum Input Level		-99		dBm

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# 3.2 5G Band

# HE20MHz, MCS0

item	em contents				
Specification	IEEE802.11ax-5GHz				
Mode	OFDM				
Channel frequency (spacing)		5180 to 5825 MHz			
Transmitter	Min.	Тур.	Max.	unit	
Power Levels		24		dBm	
Receiver (PER<10%)	Min.	Тур.	Max.	unit	
Minimum Input Level		-94		dBm	

# HE10MHz, MCS0

item	contents				
Specification		IEEE802.11ax-5GHz			
Mode	OFDM				
Channel frequency (spacing)	5180 to 5825 MHz				
Transmitter	Min.	Тур.	Max.	unit	
Power Levels		24		dBm	
Receiver (PER<10%)	Min.	Тур.	Max.	unit	
Minimum Input Level		-97		dBm	

# HE5MHz, MCS0

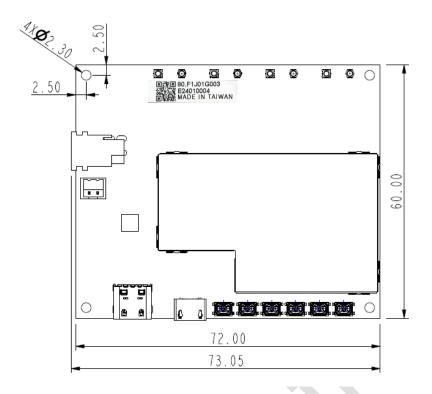
item	contents				
Specification		IEEE802.11ax-5GHz			
Mode	OFDM				
Channel frequency (spacing)	5180 to 5825 MHz				
Transmitter	Min.	Тур.	Max.	unit	
Power Levels		24		dBm	
Receiver (PER<10%)	Min.	Тур.	Max.	unit	
Minimum Input Level		-100		dBm	

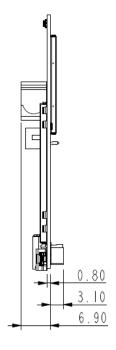
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# 4. Mechanical Specification

# 4.1 Mechanical dimensions





# 4.2 Weight

Around 21 ± 2 g





# 5. Product Marking, Ordering and Shipping Info.

# 5.1 Product Marking (Label)



NCC Certification Label:

型號: LR 405 (((CCAF23Y10150T5



#### P/N Label:

SP.F1J01G003 S.P. LR SOM



# 6. Compliance Statements

#### **MSL (Moisture Sensitivity Level):**

The moisture sensitivity level of this product is rated at MSL Level 2a.

#### Strategic Hi-Tech Commodity (SHTC):

□ Yes (Y) / No (N), This product is not intended for use in military application.

#### **RoHS Statement:**

This product complies with the EU RoHS Directive (2011/65/EU and its amendments) and <u>does not contain</u> restricted hazardous substances.

#### **Halogen-free Statement:**

This product meets halogen-free requirements and <u>does not contain</u> halogen elements such as chlorine (CI) or bromine (Br).

#### **REACH 247 Statement:**

This product <u>does not contain</u> any of the 247 substances of very high concern (SVHCs) listed under the EU REACH regulation.

#### **CMRT v6.5**:

The company adheres to the Conflict Minerals Reporting Template (CMRT v6.5) developed by the Responsible Minerals Initiative (RMI) to disclose the sources of tin (Sn), tantalum (Ta), tungsten (W), and gold (Au). Does this product contain conflict minerals: □ Yes / ■ No

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