



# COREXOM R405LQ LR MODULE DATASHEET

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## 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	<ul style="list-style-type: none"> <li>Following cricfg tool Menu items to adjustment</li> <li>Add criwifitool shell command to get RSSI information in section 2.1.4 and Connection Status in section 2.2.2</li> </ul>

## 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

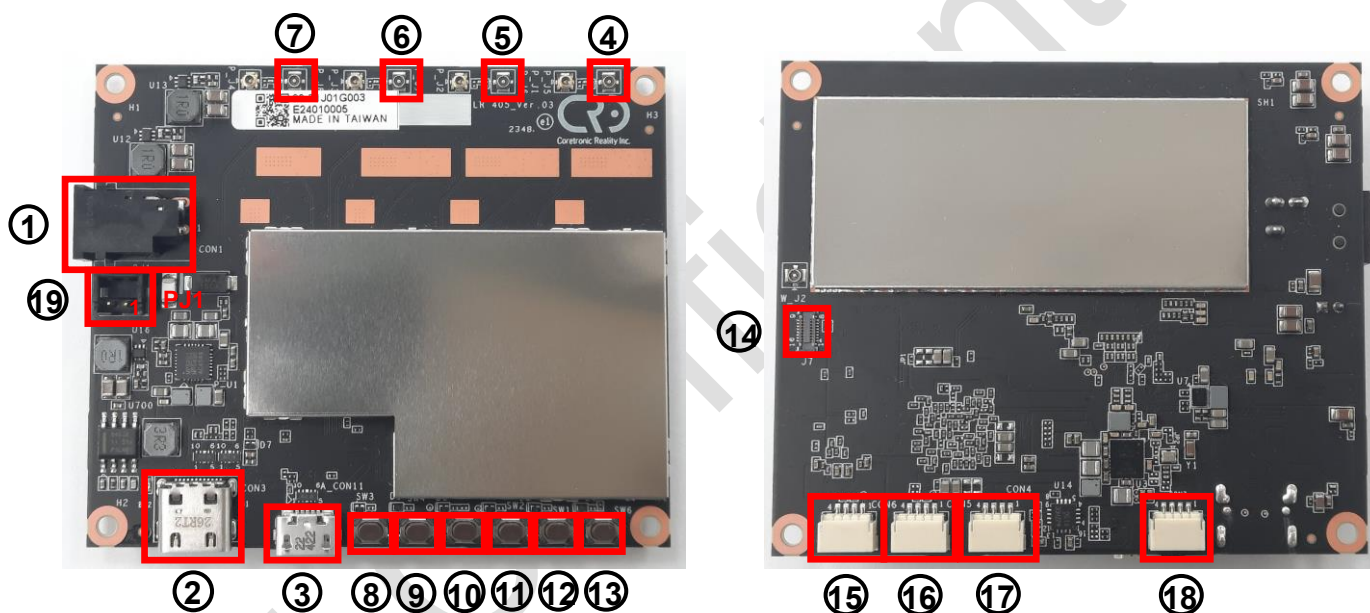
Item	Description
Platform	Qualcomm QCS405 + QCN9074
Technology	Leverage Wi-Fi 6 (802.11ax)
MIMO	4T4R
Frequency	<ul style="list-style-type: none"><li>● 2412MHz~2462MHz</li><li>● 5180MHz~5240MHz / 5745MHz~5825MHz</li></ul>
RF signal B.W	5MHz / 10MHz / 20MHz
Throughput	240 Mbps (TBC)
Radio Tx Power	<ul style="list-style-type: none"><li>● <math>\leq 24\text{dBm}</math> @ 2.4GHz</li><li>● <math>\leq 24\text{dBm}</math> @ 5GHz</li></ul>
Distance	> 10KM (Open space without distractions)
Connection Interfaces	<ol style="list-style-type: none"><li>1. USB 3.0 (Type C)</li><li>2. USB 2.0 (Micro USB, for FW UD)</li><li>3. UART x2 (1.8V)</li><li>4. UART x1 (3.3V, for Debug only)</li><li>5. Buttons x6</li></ol>
Power Supply	DC 6.6V~17V via Power Jack
Power Consumption	<ul style="list-style-type: none"><li>● 2.4GHz 4T4R Tx &lt; 9.8W</li><li>● 2.4GHz 4T4R Rx &lt; 4.0W</li><li>● 5GHz 4T4R Tx &lt; 13.8W</li><li>● 5GHz 4T4R Rx &lt; 4.5W</li></ul>
Dimension	60 x 72 x 9.9 mm

Item	Description
Weight	Around 21 g
Operation Temp.	-20 ~ 70 °C
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 * <sup>1</sup>
2	USB 3.0 Type C	12	Key SW, N/A
3	USB 2.0 Micro (for FW UD)	13	Key SW, USB BOOT * <sup>1</sup>
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 * <sup>2</sup> (Hirose, DF3-2P-2DSA(01))
10	Key SW, Volume down -		

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

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



## 2.1.1 Settings (SSID)

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

```
***** CRI Wi-Fi Config Tool - Menu *****
SAP settings
1: SAP - Get the Current And PSK.
2: SAP - Set the New SSID And PSK

0. Exit.

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

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

```
ssid=CRIssidJeff
#wpa_passphrase=12345678

***** CRI Wi-Fi Config Tool - Menu *****
SAP settings
1: SAP - Get the Current And PSK.
2: SAP - Set the New SSID And PSK

0. Exit.

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

Or, enter “2” to setup new SSID and Password.

```
Please enter the new Hostpot_SSID: CRIssidJeff
Please enter the new Hostpot_PSK:12345678
command failed: Invalid argument (-22)
l2_packet_init: ioctl[SIOCGIFINDEX]: No such device
Failed to open l2_packet interface for vlan bridge
ath0: interface state UNINITIALIZED->ENABLED
ath0: AP-ENABLED

***** CRI Wi-Fi Config Tool - Menu *****
SAP settings
1: SAP - Get the Current And PSK.
2: SAP - Set the New SSID And PSK

0. Exit.

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

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.

```
Channel: 36 (5180 MHz) bandwidth: 20MHz (network mdoe: 11AHE20.)

*~*~*~*~*~*~*~*~* CRI Wi-Fi Config Tool - Menu ~*~*~*~*~*~*~*~*
  SAP Channel / Bandwidth settings
  1: SAP - Switch Channel.
  2: SAP - Switch Bandwidth.
  3: SAP - Switch Channel and Bandwidth.

  0: Exit or Return to the Upper Level Directory.

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

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.

```
Please enter the new channel: 40
Bandwidth only support: 0: 20MHz, 1: 10MHz, 2: 5MHz
Please enter the new bandwidth: [0/1/2]: 1
Change channel to 40 with bandwidth to 10 MHz, please wait...
Channel changed to 40 successfully.

Bandwidth changed to 10MHz successfully.

Channel: 40 (5200 MHz) bandwidth: 10MHz (network mdoe: 11AHE20.)

*~*~*~*~*~*~*~*~* CRI Wi-Fi Config Tool - Menu ~*~*~*~*~*~*~*~*
  SAP Channel / Bandwidth settings
  1: SAP - Switch Channel.
  2: SAP - Switch Bandwidth.
  3: SAP - Switch Channel and Bandwidth.

  0: Exit or Return to the Upper Level Directory.

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

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

```

This feature has been configured.

~*~*~*~*~*~*~*~* 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 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.

```

ADDR          AID CHAN TXRATE RXRATE RSSI MINRSSI MAXRSSI IDLE TXSEQ RXSEQ CAPS XCAPS ACAPS ERP
STATE MAXRATE(DOT11) HTCAPS VHTCAPS ASSOCTIME IEs MODE RXNSS TXNSS PSMODE
44:a8:42:ff:46:df 1 44 6M 17M -51 -52 -51 27 0 65535 Es ETWt NULL 0
b 286800 APM 1gTRs 00:04:05 WME IEEE80211_MODE_11AXA_HE20 4 2 0

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 : 115
Supported Operating classes : 81 82 83 84 115 116 117 118 119 120 121 122 123 124 125 126
127 128 130
Supported Rates : 12 18 24 36 48 72 96 108
Max STA phymode : IEEE80211_MODE_11AXA_HE20
00:03:7f:06:00:22 2 44 6M 14M -15 -15 -12 54 0 65535 Es ETWt NULL 0
b 144400 APM 1gTRs 00:04:04 WME IEEE80211_MODE_11NA_HT20 4 2 0

```

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

```
./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

```
***** 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.

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

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

```
[ 4] 1.01-2.01 sec 14.5 MBytes 122 Mbits/sec 1860 (omitted)
[ 4] 2.01-3.00 sec 14.4 MBytes 121 Mbits/sec 1840 (omitted)
[ 4] 0.00-1.00 sec 14.2 MBytes 119 Mbits/sec 1820
[ 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
[ 4] 3.01-4.00 sec 14.4 MBytes 121 Mbits/sec 1840
[ 4] 4.00-5.00 sec 14.2 MBytes 119 Mbits/sec 1820
[ 4] 5.00-6.00 sec 14.1 MBytes 118 Mbits/sec 1800
[ 4] 6.00-7.00 sec 13.8 MBytes 115 Mbits/sec 1760
[ 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
[ 4] 9.01-10.00 sec 13.9 MBytes 117 Mbits/sec 1780

-----
[ ID] Interval          Transfer      Bandwidth      Jitter      Lost/Total Datagrams
[ 4] 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 re-power on. After connected with ADB PC, and enter “crifcg” command. The below items select Menu will shows on ADB PC.

```
Software version: 2.3.4
~*~*~*~*~*~*~*~* CRI Wi-Fi Config Tool - Menu ~*~*~*~*~*~*~*~*
  STA Menu
1: STA - Scan the Available Hotspots
2: STA - Settings
3: STA - Switch AP
4: STA - Connection status
5: STA - Throughput test

  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:
```

### 2.2.1 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 Activated 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 Activated 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.

```
network id / ssid / bssid / flags
0      CRIssidJeff      any      [CURRENT]

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 Activated WPA supplicant.

0. Exit or Return to the Upper Level Directory.

Please enter the operation number to be performed: 5_
```

## 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 *****
STA 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
```

### 2.2.3 STA Throughput Test

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

```
***** CRI Wi-Fi Config Tool - STA 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 or Return to the Upper Level Directory.

Please enter the operation number to be performed: 4_
```

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
[ 4] 0.00-1.00 sec        11.6 MBytes        96.9 Mbits/sec     1480 (omitted)
[ 4] 1.00-2.00 sec        13.8 MBytes        116 Mbits/sec     1770 (omitted)
[ 4] 2.00-3.00 sec        18.9 MBytes        158 Mbits/sec     2420 (omitted)
[ 4] 0.00-1.00 sec        19.5 MBytes        163 Mbits/sec     2490
[ 4] 1.00-2.00 sec        18.3 MBytes        154 Mbits/sec     2340
[ 4] 2.00-3.00 sec        21.8 MBytes        183 Mbits/sec     2790
[ 4] 3.00-4.00 sec        16.3 MBytes        137 Mbits/sec     2090
[ 4] 4.00-5.00 sec        20.2 MBytes        170 Mbits/sec     2590
[ 4] 5.00-6.00 sec        20.0 MBytes        168 Mbits/sec     2560
[ 4] 6.00-7.00 sec        20.2 MBytes        169 Mbits/sec     2580
[ 4] 7.00-8.00 sec        20.2 MBytes        170 Mbits/sec     2590
[ 4] 8.00-9.01 sec        17.5 MBytes        146 Mbits/sec     2240
[ 4] 9.01-10.00 sec       14.1 MBytes        119 Mbits/sec     1800
-----
[ ID] Interval            Transfer            Bandwidth          Jitter    Lost/Total Datagrams
[ 4] 0.00-10.00 sec       188 MBytes        158 Mbits/sec     0.718 ms  1081/24064 (4.5%)
[ 4] Sent 24064 datagrams

iperf Done.
```

## 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

```
-----
Device type: QCS405
CRI image version: G6-LR-2.1.3-debug
|- wlan_pine: "WLAN.IOE_PN.1.3-00215-QCAHKSUPL_SILICONZ-1
|- Meta_Build_ID: "QCS405.LE.2.0-00025-STD.PROD-1

Device Info:
|- Service: STA
|- IP: 192.168.1.2
|- MAC: 44:a8:42:ff:46:c6
|- Antena type: 4T4R
|- channel 191 (2402 MHz), width: 20 MHz
|- Network Mode: 11G
-----
```

### 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 [chapter 2.3.1](#) 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 [chapter 2.3.2](#) 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 [chapter 2.2.2](#) STA Menu 4, to check WiFi connection status, and confirmed WiFi has been connected.

### 2.4.3 Perform iperf test

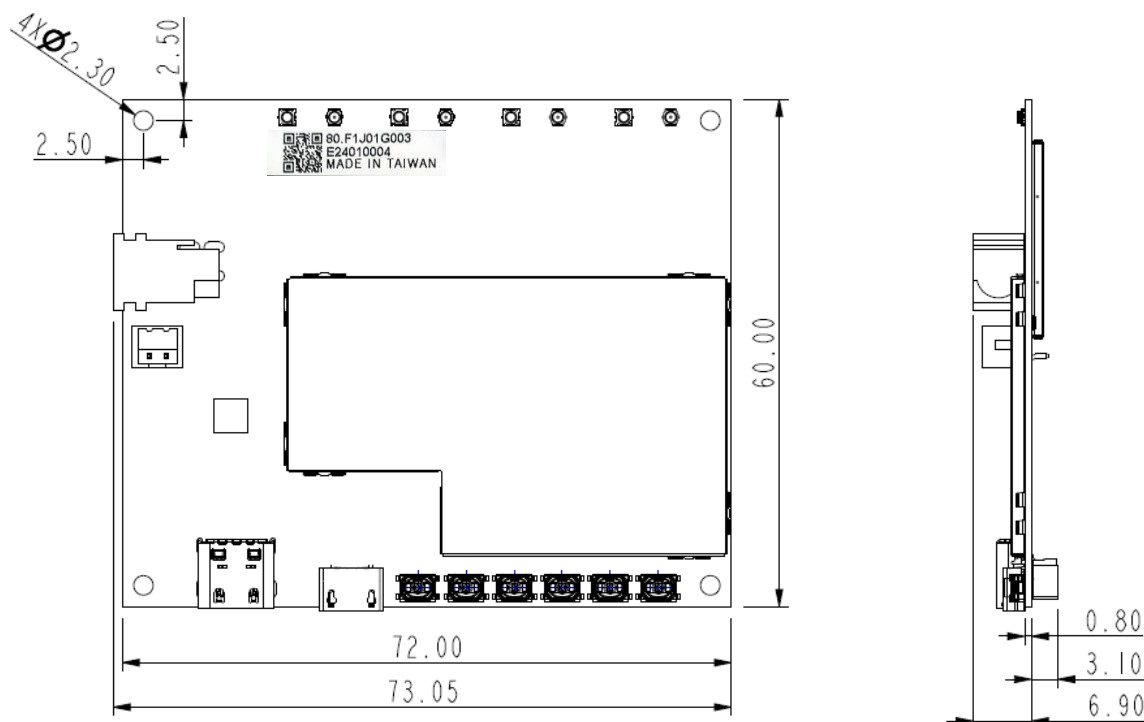
- A. Please refer [chapter 2.2.3](#) STA Menu 5, to enter STA Throughput Test Menu. Then, choose the test item which you would like to do ?
- B. For example, after enter 4, then the test result of “UDP : iperf 10 second“ will be shown like below picture.

```
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
[ 4]  0.00-1.00    sec    11.6 MBytes   96.9 Mbits/sec   1480 (omitted)
[ 4]  1.00-2.00    sec    13.8 MBytes   116 Mbits/sec   1770 (omitted)
[ 4]  2.00-3.00    sec    18.9 MBytes   158 Mbits/sec   2420 (omitted)
[ 4]  0.00-1.00    sec    19.5 MBytes   163 Mbits/sec   2490
[ 4]  1.00-2.00    sec    18.3 MBytes   154 Mbits/sec   2340
[ 4]  2.00-3.00    sec    21.8 MBytes   183 Mbits/sec   2790
[ 4]  3.00-4.00    sec    16.3 MBytes   137 Mbits/sec   2090
[ 4]  4.00-5.00    sec    20.2 MBytes   170 Mbits/sec   2590
[ 4]  5.00-6.00    sec    20.0 MBytes   168 Mbits/sec   2560
[ 4]  6.00-7.00    sec    20.2 MBytes   169 Mbits/sec   2580
[ 4]  7.00-8.00    sec    20.2 MBytes   170 Mbits/sec   2590
[ 4]  8.00-9.01    sec    17.5 MBytes   146 Mbits/sec   2240
[ 4]  9.01-10.00   sec    14.1 MBytes   119 Mbits/sec   1800
-----
[ ID] Interval           Transfer     Bandwidth       Jitter    Lost/Total Datagrams
[ 4]  0.00-10.00   sec    188 MBytes   158 Mbits/sec   0.718 ms  1081/24064 (4.5%)
[ 4] Sent 24064 datagrams

iperf Done.
```

## 3. Mechanical Specification

### 3.1 Mechanical dimensions

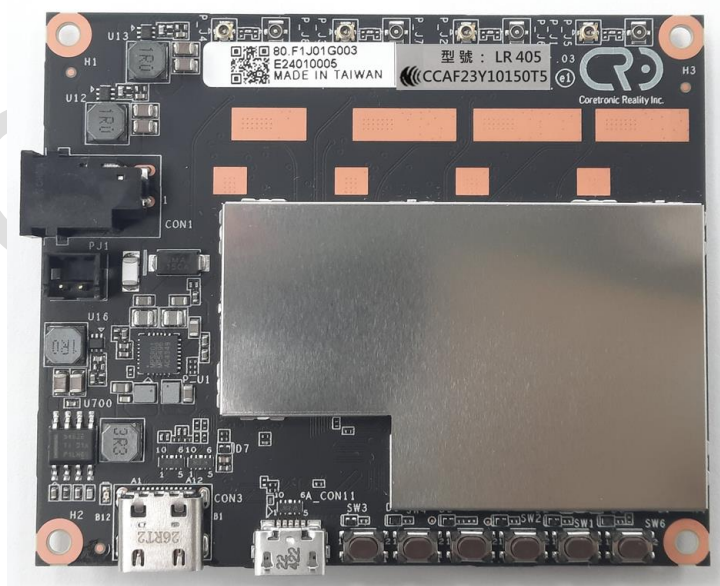


### 3.2 Weight

Around 21 ± 2 g

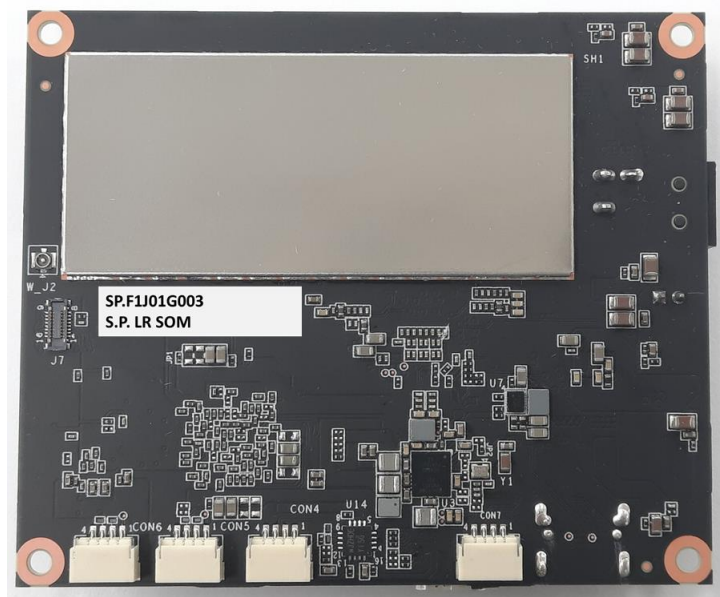
## 4. Product Marking, Ordering and Shipping Info.

### 4.1 Product Marking (Label)



NCC Certification Label :

型號 : LR 405  
CCAF23Y10150T5



P/N Label :

**SP.F1J01G003**  
**S.P. LR SOM**

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