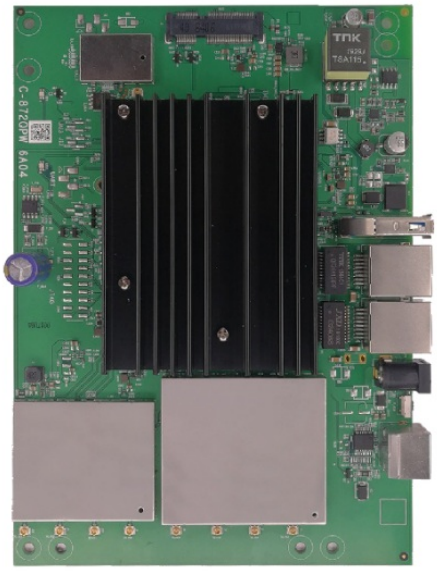
Compex WPQ872 Embedded Board User Manual

Compex WPQ872 Embedded Board User Manual



Contents

Model

- WPQ872,
- WPQ872-I,
- WPQ872HV,
- WPQ872LV

KEY FEATURES

- Qualcomm Atheros IPQ8072A
- Quad-core ARM 64 bit A53 2.2GHz processor
- 2.4GHz, 4×4 MU-MIMO OFDMA Technology, up to 1182Mbps
- 5GHz, 4×4 MU-MIMO OFDMA Technology, up to 2475Mbps
- Supports Dynamic Frequency Selection (DFS)

APPLICATIONS

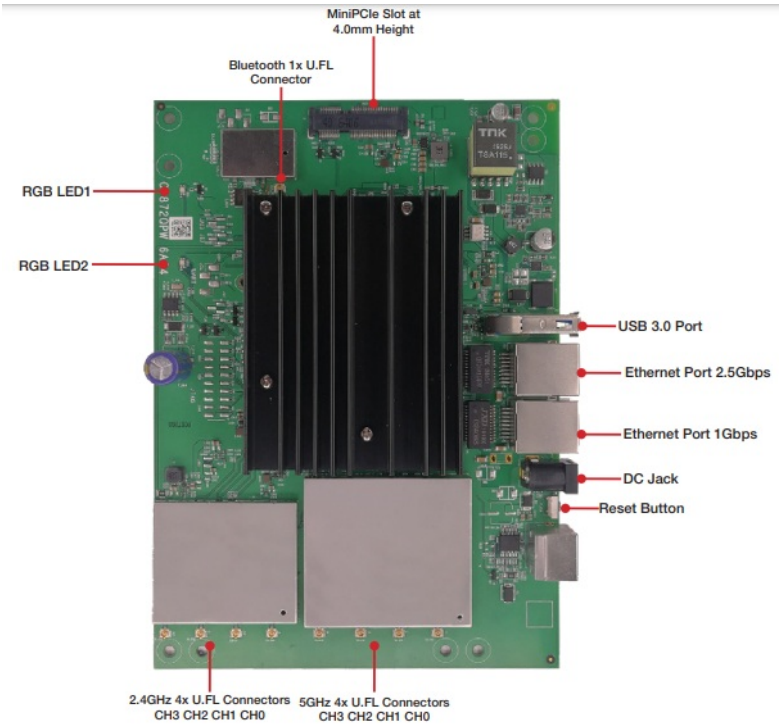
- 802.11ax MU-MIMO Access Point
- Mesh router supporting EasyMesh and Qualcomm’s Self Organising Network (SON)
- Smart AP TWT
- **Reset or Login Instructions**

Specifications

Chipset	Qualcomm Atheros IPQ8072A
CPU Frequency	Quad-core ARM 64 bit A53 2.2GHz processor
NAND Flash	256MB
NOR Flash	8MB
Ethernet Port	1x 1Gbps Ethernet Port, 1x 2.5Gbps Ethernet Port
DC Jack Input	1x DC Jack Connector: 12V
Power consumption (Board only)	22.5W (Including Bluetooth)
Power over Ethernet (PoE)	Supports IEEE 802.3at 48V~56V
Wireless	On-board 4×4 2.4GHz MU-MIMO OFDMA 802.11b/g/n/ax On-board 4×4 5GHz MU-MIMO OFDMA 802.11a/n/ac/ax
Frequency Range	2.412~2.462GHz, 5.150~5.825GHz *Note: Frequency range will be restricted according to different countries
Bluetooth	QCA4024 BLE 5.0
Modulation Techniques	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
LED	2x RGB LED Indicators
USB/ header	1x USB 3.0 Port
Push **Button Reset**	1x S/W Reset Button
Certification	CE, FCC, IC, REACH & RoHS Compliance
Humidity	Operating: 5% to 95% (non-condensing) Storage: Max. 90% (non-condensing)
Temperature Range	Operating: -20ºC to 70ºC Storage: -40ºC to 90ºC

***Configurations are subject to change without notifications.**

Component Map



Order Configuration

*Note: The casing is provided by Lancom, below shown the completed configuration of the AP with embedded board

FCC

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help. Refer to FCC 15.105 section.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Canada

Canadian Compliance Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’s licence-exempt RSS(s). Operation is subject to the following two conditions:

(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Caution

1. the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
2. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
3. for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and

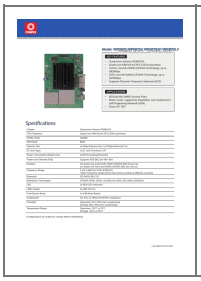
CAN ICES-3 (B)/NMB-3(B)

No necessary to perform SAR testing
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

All specifications are subject to change without notice.

Compex Systems Pte Ltd | www.compex.com.sg | (+65) 6286 2086 | sales@compex.com.sg | Last Updated: 09/07/2020 AT, GS, LL, SL

Documents / Resources

	Compex WPQ872 Embedded Board [pdf] User Manual WPQ872, WPQ872HV, WPQ872LV, Embedded Board

References

- Home | Compex Systems: Leader in OEM/ODM Wireless Integration