



WPQ872

Wi-Fi 6 (802.11ax) Embedded Board

Hardware User Guide

Wi-Fi 6 / 802.11ax

Dual-Band On-Board
2.4GHz + 5GHz

IPQ8072A

Qualcomm Hawkeye Series

2 Ethernet Ports

1× 1GbE + 1× 2.5GbE
RJ45 Port

4×4 MU-MIMO

OFDMA Support Both
Bands

Contents

1. Introduction	3
2. Package Contents	5
3. Hardware Overview.....	6
3.1 Board Layout.....	6
3.2 Connector Descriptions.....	8
3.3 LED Indicators.....	12
3.4 Hardware Pinouts.....	13
4. Wi-Fi Specifications	17
4.1 Wi-Fi Capability	17
4.2 Notes & Recommendations	17
5. Mechanical Specifications	18
5.1 Board Dimensions.....	18
5.2 Environmental Ratings.....	18
5.3 Mounting & Installation Notes	18
6. Power Specifications	19
6.1 Power Requirements.....	19
6.2 Power Delivery Protection.....	19
6.3 Notes & Recommendations	19
7. Installation & Integration	20
7.1 Pre-Installation Checklist	20
7.2 Antenna Connection.....	20
7.3 MiniPCle Module Installation (Optional)	20
7.4 Power Connection.....	21
7.5 Ethernet Connection	21
8. Configuration	22
8.1 Default Settings.....	22
8.2 Wireless Configuration.....	22
9. Troubleshooting.....	23
10. Safety Precautions.....	24
11. Technical Support.....	25
12. Full Specifications	26
13. Regulatory Information.....	28

1. Introduction

Thank you for choosing the Compex WPQ872. This document provides complete hardware integration guidance for engineers and system developers deploying the WPQ872 in embedded, industrial, and networking platforms.

The WPQ872 is a multi-function embedded board powered by Qualcomm's IPQ8072A 'Hawkeye' Series quad-core ARM Cortex-A53 processor running at 2.2GHz. The board integrates dual-band 4×4 MU-MIMO Wi-Fi 6 radio directly on-board, an on-board Bluetooth 5.0 BLE module, a MiniPCIe expansion slot, and multiple high-speed Ethernet ports, delivering a flexible platform for networking product development.

Key Highlights

- Qualcomm IPQ8072A 'Hawkeye' Quad-Core ARM 64-bit A53 @ 2.2 GHz SoC for network processing.
- Dual-band Wi-Fi 6 (802.11ax) integrated on-board — 4×4 MU-MIMO OFDMA on both 2.4GHz and 5GHz.
- On-board wireless: 2.4GHz 802.11b/g/n/ax, max 17dBm per chain; 5GHz 802.11a/n/ac/ax, max 17dBm per chain.
- 8× U.FL antenna connectors (4 per band, CH0-CH3) for external antenna connections.
- 1× MiniPCIe slot with PCIe 3.0 for additional module expansion.
- On-board Bluetooth via Qualcomm QCA4024, BLE 5.0, with a dedicated U.FL antenna connector.
- Dual Ethernet: 1× 1GbE LAN RJ45 port + 1× 2.5GbE WAN RJ45 port.
- 1× USB 3.0 port for external storage and peripherals.
- Onboard memory: 512MB DDR4 2400MHz (16-bit interface), 256MB NAND Flash, and 8MB NOR Flash.
- 1× 8-pin Mini-DIN serial connector for firmware development and debugging.
- 1× software reset button and 2× RGB LED indicators.
- CompexWRT V10.0 firmware.
- REACH and RoHS compliant.

Intended Use

The WPQ872 is an engineering-grade embedded board intended for OEM/ODM integration and product development. Typical target applications include:

- 802.11ax MU-MIMO OFDMA Wi-Fi 6 access points and dual-band router platforms.
- Mesh router supporting EasyMesh and Qualcomm's Self Organising Network (SON).
- Smart AP TWT.

2. Package Contents

Verify the following items are included in the package before proceeding with installation:

Checklist

- 1 × WPQ872 embedded board

⚠ Note: External antennas (U.FL pigtail cables), MiniPCIe expansion modules, Ethernet cables, and power supply are not included unless specified in the order. Contact sales@compex.com.sg for accessory options.

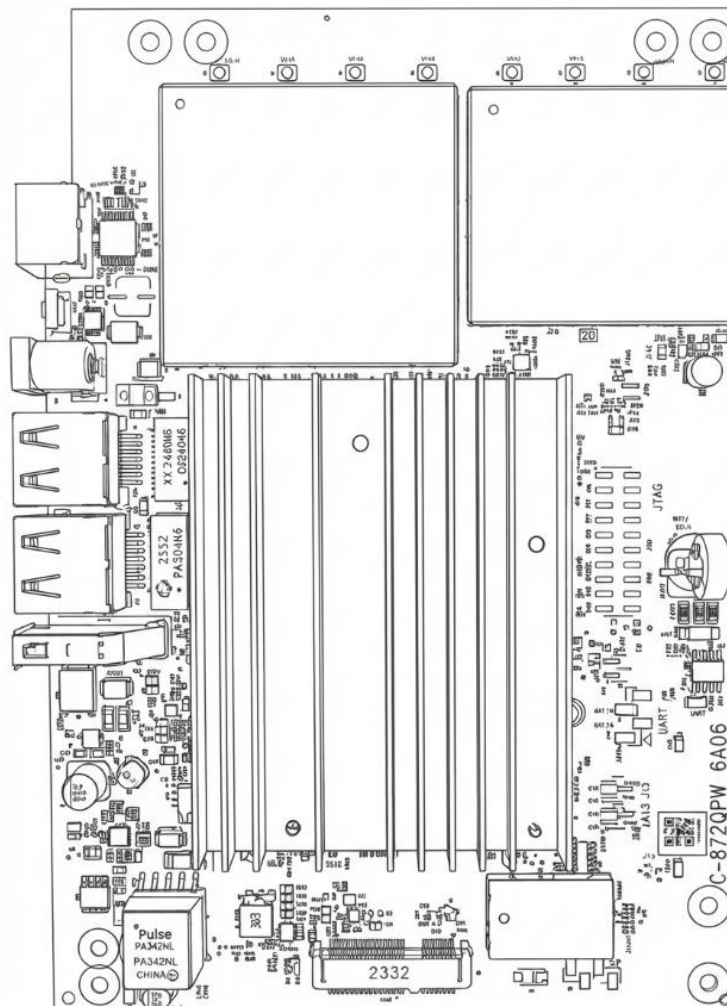
If any item is missing or damaged, contact Compex Technical Support (see Chapter 11) before proceeding.

3. Hardware Overview

The WPQ872 is a fully integrated embedded networking platform based on the Qualcomm IPQ8072A SoC. Dual-band 4x4 MU-MIMO Wi-Fi 6 radio, on-board Bluetooth 5.0, routing, and switching are handled entirely on-board, with a MiniPCIe slot available for additional module expansion.

3.1 Board Layout

The WPQ872 features the following major components and connectors:

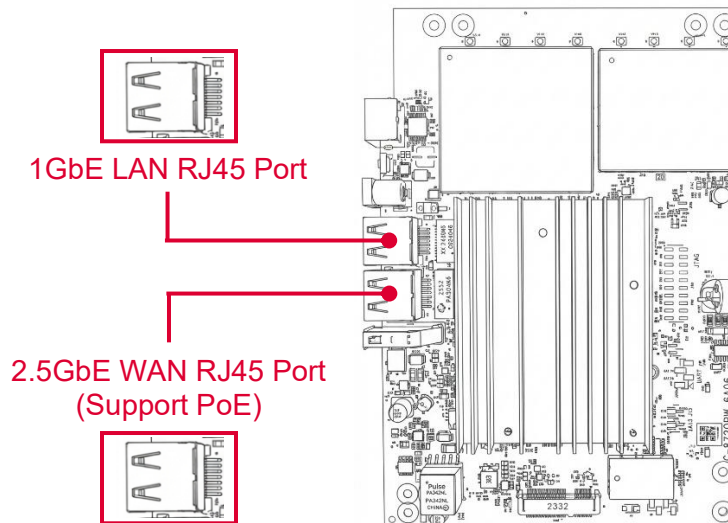


SoC	Qualcomm IPQ8072A 'Hawkeye' Series, Quad-Core ARM 64-bit A53 @ 2.2 GHz
Reference Design	Qualcomm Atheros HK09
System Memory	512MB DDR4 2400MHz, 16-bit interface
Flash Storage	256MB NAND Flash + 8MB NOR Flash
MiniPCle Slot	1x MiniPCle slot with PCIe 3.0 (4.0mm height)
Ethernet Ports	1x 1GbE LAN RJ45 + 1x 2.5GbE WAN RJ45
USB	1x USB 3.0 Port
Bluetooth	Qualcomm QCA4024, BLE 5.0, with 1x dedicated U.FL antenna connector
Serial / Debug	1x 8-pin Mini-DIN Connector
Other I/O	1x Software Reset Button, 2x RGB LED Indicators
Form Factor	132mm x 180mm x 41.7mm

3.2 Connector Descriptions

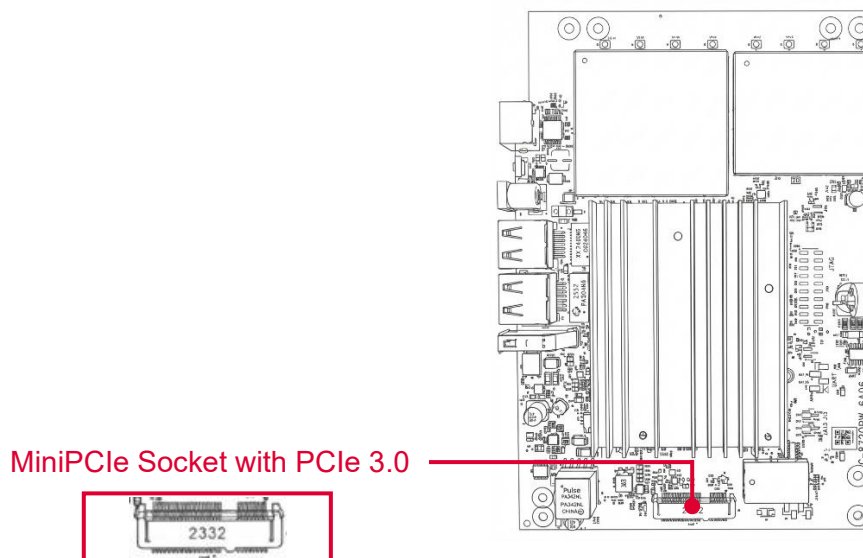
Ethernet Ports (RJ45)

- 1x 1Gbps LAN RJ45 port and 1x 2.5Gbps WAN RJ45 port.
- Support PoE via WAN port.
- Both ports support auto-MDI/MDIX and auto-negotiation.



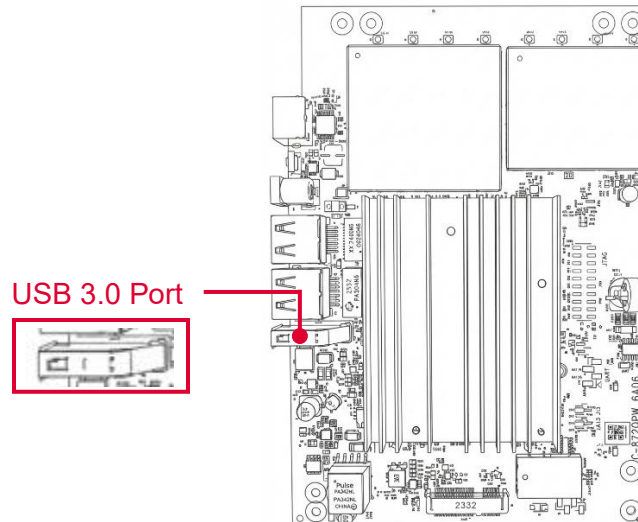
MiniPCle Slot

- 1x MiniPCle slot with PCIe 3.0, mounted at 4.0mm height, for additional module expansion.



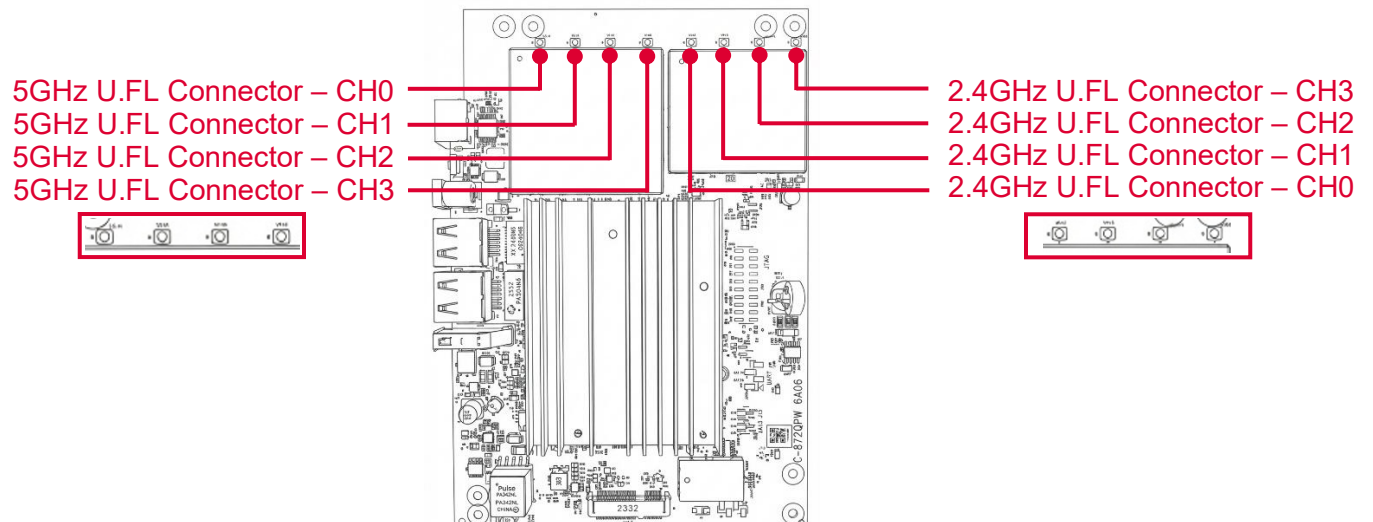
USB Port

- 1x USB 3.0 Port.
- Supports external storage, peripherals, and firmware upgrade via USB.



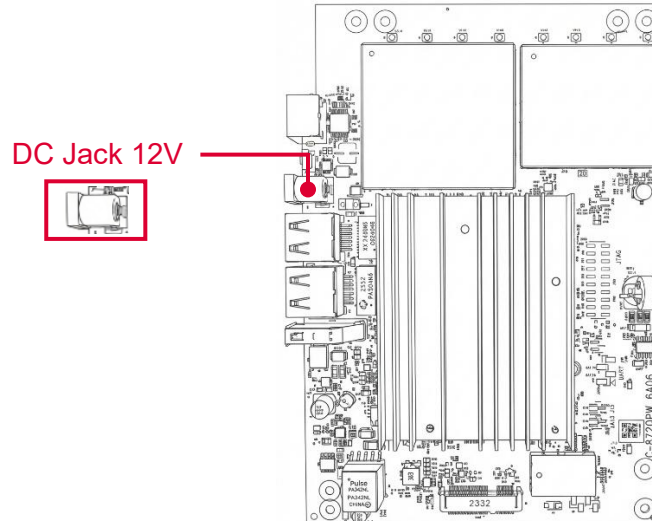
U.FL RF Connectors

- 8x U.FL connectors total, providing 4 connectors per band (CH0-CH3): 4x for 2.4GHz, 4x for 5GHz.
- 1x additional U.FL connector dedicated to the on-board Bluetooth module.
- Connect suitable external antennas rated for the respective frequency band.



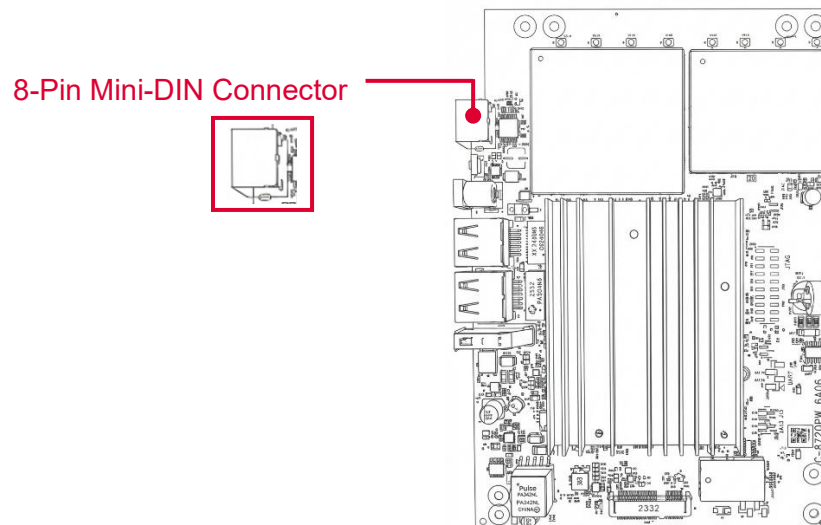
Power Connector

- 1x DC Jack Connector, 12V DC input at 2A.
- Maximum board-only power consumption: 22.5W (including Bluetooth).



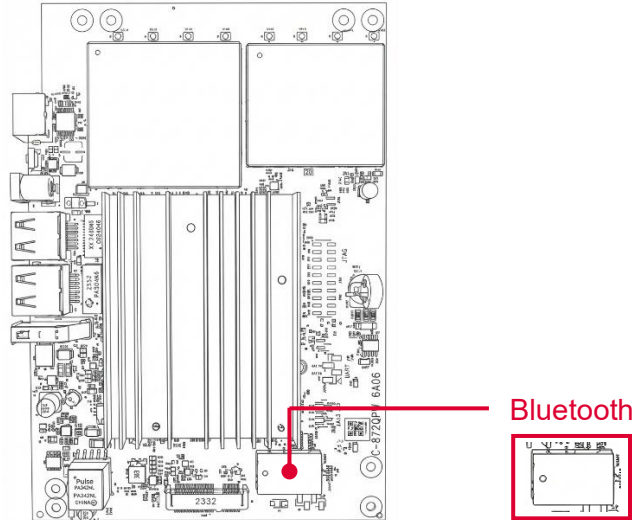
Serial Debug Interface

- Serial: 8-pin Mini-DIN for serial console access.



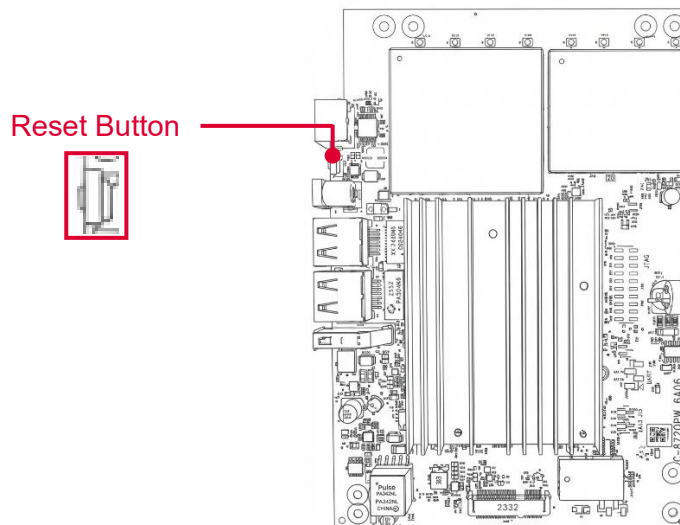
Bluetooth

- On-board Qualcomm QCA4024 module supporting Bluetooth 5.0 and BLE (Bluetooth Low Energy).



Reset Buttons

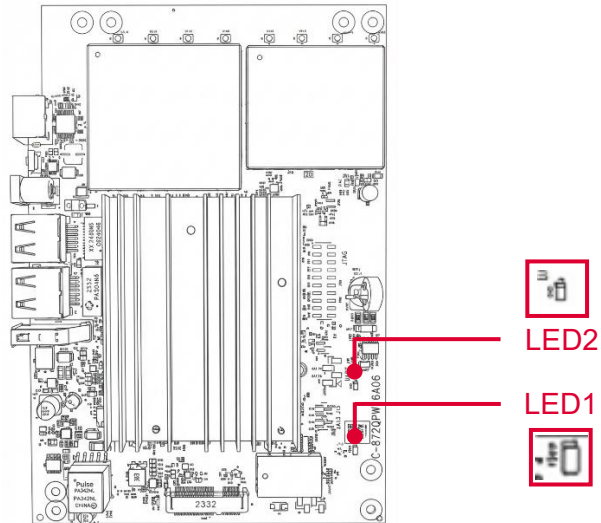
- 1x software reset button for hardware reboot.



3.3 LED Indicators

LED

- LED1 (Status): Blue, blinking — System boot completed and the board is ready for use.
- LED2 (Power): Red, solid on — The board is powered on and operational.



3.4 Hardware Pinouts

Serial Pin Assignment (8-Pin Mini-DIN Connector)

Pin	Signal
1	UART_TX
2	UART_RX
3	GND
4	VCC
5	RTS/RESET
6	CTS
7	GND
8	NC

USB 3.0 Port Pin Assignment

Pin	Signal	Pin	Signal
1	DVDD_5V_USB	2	USB_HS_CONN_DM
3	USB_HS_CONN_DP	4	GND
5	USB_SS_RX_N	6	USB_SS_RX_P
7	GND	8	CONN_USB_SS_TX_N
9	CONN_USB_SS_TX_P	10	GND
11	GND		

LED Pin Assignment

LED Array			
Location	Signal		
	Red	Green	Blue
LED1	GPIO_42	GPIO_44	GPIO_43
LED2	GPIO_28	GPIO_18	GPIO_19

Ethernet LAN Port Pin Assignment

Ethernet LAN Port (RJ45 1Gbps)	
Pin	Signal
1	1G_CH0_P
2	1G_CH0_N
3	1G_CH1_P
4	1G_CH2_P
5	1G_CH2_N
6	1G_CH1_N
7	1G_CH3_P
8	1G_CH3_N

Ethernet WAN Port Pin Assignment

Ethernet WAN Port (RJ45 2.5Gbps)	
Pin	Signal
1	2.5G_CH0_P
2	2.5G_CH0_N
3	2.5G_CH1_P
4	2.5G_CH2_P
5	2.5G_CH2_N
6	2.5G_CH1_N
7	2.5G_CH3_P
8	2.5G_CH3_N

MiniPCle Slot Pin Assignment

Top side		Bottom side	
1	PCIE_WAKE_N	2	VDD_3V3
3	NC	4	GND
5	NC	6	NC
7	PULL UP_3V3	8	NC
9	GND	10	NC
11	PCIE0_REFCLK_N	12	NC
13	PCIE0_REFCLK_P	14	NC
15	GND	16	NC
Mechanical key MiniPCle			
17	NC	18	GND
19	NC	20	NC
21	GND	22	PCIE_PERST_L
23	PCIE_RX_N	24	VDD_3V3
25	PCIE_RX_P	26	GND
27	GND	28	NC
29	GND	30	NC
31	PCIE_TX_N	32	NC
33	PCIE_TX_P	34	GND
35	GND	36	NC
37	GND	38	NC
39	VDD_3V3	40	GND
41	VDD_3V3	42	NC
43	NC	44	NC
45	VDD_5V	46	NC
47	VDD_5V	48	NC
49	VDD_5V	50	GND
51	VDD_5V	52	VDD_3V3
53	GND	54	GND

GPIO Pin Mapping

GPIO PIN	Function	GPIO PIN	Function
GPIO_0	NC	GPIO_1	QPIC_BUSY_N
GPIO_2	RTC_SDA	GPIO_3	QPIC_WE_N
GPIO_4	QPIC_OE_N	GPIO_5	QPIC_DATA
GPIO_6	QPIC_DATA	GPIO_7	QPIC_DATA
GPIO_8	QPIC_DATA	GPIO_9	NC
GPIO_10	BOOT/QPIC_CLE	GPIO_11	QPIC_NAND_CS_N
GPIO_12	QPIC_DATA	GPIO_13	QPIC_DATA
GPIO_14	QPIC_DATA	GPIO_15	QPIC_DATA
GPIO_16	NC	GPIO_17	BOOT/QPIC_ALE
GPIO_18	BOOT/LED2_G	GPIO_19	BOOT/LED2_B
GPIO_20	BOOT	GPIO_21	BT_RESET
GPIO_22	QTZ_SPI_CS_BLSP3	GPIO_23	UART_RXD
GPIO_24	BOOT/UART_TXD	GPIO_25	NAPA2_RESET
GPIO_26	NAPA2_INT	GPIO_27	NC
GPIO_28	BOOT/LED2_R	GPIO_29	NC
GPIO_30	EEPROM_SDA	GPIO_31	NC
GPIO_32	EEPROM_SCL	GPIO_33	QTZ_GPIO_22
GPIO_34	NC	GPIO_35	BOOT/NC
GPIO_36	BOOT/PULL DOWN (boot from NOR)	GPIO_37	MALIBU_RESET
GPIO_38	SPI0_CLK	GPIO_39	SPI0_CS
GPIO_40	SPI0_MISO	GPIO_41	SPI0_MOSI
GPIO_42	LED1_R	GPIO_43	LED1_B
GPIO_44	LED1_G	GPIO_45	BOOT
GPIO_46	IOT_UART_RTS	GPIO_47	IOT_UART_CTS
GPIO_48	IOT_UART_RX	GPIO_49	BOOT/IOT_UART_TX
GPIO_50	SPI2_CLK	GPIO_51	RTC_SCL
GPIO_52	SPI2_MISO	GPIO_53	BOOT/SPI2_MOSI
GPIO_54	NC	GPIO_55	NC
GPIO_56	SW_RST	GPIO_57	NC
GPIO_58	PCIE_PERST_N	GPIO_59	PCIE_WAKE_N
GPIO_60	NC	GPIO_61	NC
GPIO_62	NC	GPIO_63	NC
GPIO_64	PTA1_1	GPIO_65	BOOT/PTA1_2
GPIO_66	PTA1_0	GPIO_67	NC
GPIO_68	BOOT/MDC	GPIO_69	MDIO

4. Wi-Fi Specifications

4.1 Wi-Fi Capability

The WPQ872 features fully integrated dual-band 4x4 MU-MIMO Wi-Fi 6 radios operating on the 2.4GHz and 5GHz bands. Both radios are driven by the Qualcomm IPQ8072A SoC and require no external M.2 or MiniPCle radio modules.

Wi-Fi Standard	IEEE 802.11ax (Wi-Fi 6) - backward compatible to 802.11a/b/g/n/ac
2.4GHz Radio	4x4 MU-MIMO OFDMA 802.11b/g/n/ax; max 17dBm per chain
5GHz Radio	4x4 MU-MIMO OFDMA 802.11a/n/ac/ax; max 17dBm per chain
Frequency Ranges	2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.150 ~ 5.825GHz
Modulation	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Antenna Connectors	8x U.FL connectors (4 per band)

4.2 Notes & Recommendations

- Always connect appropriate antennas to all 8 U.FL ports before powering on. Never operate with open (unterminated) U.FL connectors, as this may damage the RF front-end.
- Use antennas rated for the specific frequency band (2.4GHz or 5GHz) and ensure 50Ω impedance matching.
- Do not modify the onboard antenna circuitry or U.FL connector wiring. Unauthorised modifications will void regulatory compliance.

5. Mechanical Specifications

5.1 Board Dimensions

Dimensions (W × H × D)	132mm × 180mm × 41.7mm
PCB Thickness	Standard (multi-layer PCB)

5.2 Environmental Ratings

Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 90°C
Operating Humidity	5% to 95%, Non-Condensing
Storage Humidity	Max. 90%, Non-Condensing
Certification	REACH & RoHS Compliant

5.3 Mounting & Installation Notes

- The WPQ872 board includes mounting holes at the corners for secure mechanical integration into an enclosure or chassis.
- Ensure adequate clearance around all connectors (RJ45, USB, U.FL, DC Jack) for cable routing.
- Provide sufficient airflow or thermal management for the SoC and on-board radio components, particularly in high-throughput applications.
- Do not stack objects directly on the board surface. Ensure the PCB is mounted horizontally or secured in a suitable bracket.
- All dimensions are in millimetres. Refer to the mechanical drawing on the datasheet for precise mounting hole locations.

6. Power Specifications

6.1 Power Requirements

Operating Voltage	12 V DC (via DC Jack Connector)
Input Current	2 A
Power Consumption	22.5W (board only, including Bluetooth)

6.2 Power Delivery Protection

- The board incorporates reverse polarity and over-voltage protection circuitry.
- Ensure the external power supply is rated to deliver at least 2 A at 12 V DC continuously.
- Use a regulated DC power supply. Unregulated or noisy supplies may adversely affect RF performance.

6.3 Notes & Recommendations

- Disconnect power before installing any external cables or performing maintenance.
- Never exceed 12 V DC input. Overvoltage will permanently damage the board.
- Verify power supply polarity before connecting. Reverse polarity damage may not be covered under warranty.
- Account for the full 22.5W maximum power draw when sizing the power supply for enclosure designs.

7. Installation & Integration

7.1 Pre-Installation Checklist

- Verify package contents (see Section 2) before starting installation.
- Prepare a 12V DC, 2A regulated power supply.
- Prepare external antennas for all 8 U.FL connectors (4 per band: 2.4GHz, 5GHz), plus 1 antenna for the on-board Bluetooth module if BLE is used.
- Prepare Ethernet cables (Cat5e or higher) for LAN/WAN connections.
- If using the MiniPCle slot, prepare the intended expansion module in advance.
- Ensure an ESD-safe work environment before handling the board (see Section 10).
- Have a laptop or PC available for initial configuration via Ethernet.

7.2 Antenna Connection

The WPQ872 provides 8 U.FL antenna connectors for on-board Wi-Fi (4 per band), plus 1 additional U.FL connector for the on-board Bluetooth module. All antenna connectors in use must be fitted before powering on the board.

- Identify the correct U.FL connectors for each band using the Component Map (Section 3.2).
- Press each U.FL connector cable firmly until a tactile click is felt, confirming full engagement.
- Ensure antenna cables are not sharply bent or kinked, as this degrades RF performance.

7.3 MiniPCle Module Installation (Optional)

- Power off and disconnect the board before installing or removing an MiniPCle module.
- Insert the MiniPCle module into the slot at an angle, then press down firmly until it locks into place.
- The slot is mounted at 4.0mm height; confirm module compatibility with this clearance before installation.

7.4 Power Connection

Connect the 12V DC power supply to the DC Jack connector on the board.

- Verify the power supply is rated at 12V DC, 2A (minimum).
- Insert the DC Jack plug firmly into the board's DC Jack socket.
- Power on the supply and confirm the RGB LED indicators respond.
- Allow the board sufficient time to complete its boot sequence before testing connectivity.

7.5 Ethernet Connection

- Connect a PC or network device to the 1Gbps or 2.5Gbps RJ45 port as required by the application.
- Ensure Ethernet cables are Cat5e or higher for 1Gbps connections, and Cat5e or higher for 2.5Gbps connections.
- Both Ethernet ports support auto-MDI/MDIX, so straight-through or crossover cables may be used.

8. Configuration

The WPQ872 runs the CompexWRT V10.0 firmware stack and can be configured through the SSH/serial console command line

8.1 Default Settings

Default Management IP	192.168.1.1
Default Subnet	192.168.1.0/24
Default Username	root
Default Password	Set on first login
Firmware	CompexWRT V10.0
SSH Access	Port 22 (enabled by default)
UART Baud Rate	115200 bps, 8N1

8.2 Wireless Configuration

Wireless settings can be configured via UCI commands over SSH/serial console.

- Via SSH: Connect using PuTTY or any SSH client, entering the IP address 192.168.1.1 and port 22. Log in with username root and the password
- Via Serial Console: Connect using TeraTerm or similar terminal software with the 8-pin Mini-DIN connector (115200 bps, 8N1) and a suitable serial converter.
- Wireless configuration files are located at /etc/config/wireless.
- Use UCI commands to modify settings, e.g.:

```
uci set wireless.wifi0.disabled='0'  
uci set wireless.wifi0.htmode='EHT40'  
uci commit wireless  
wifi
```

- wifi0 typically corresponds to the 2.4GHz radio and wifi1 to the 5GHz radio; confirm the exact radio-to-band mapping for your board using iw dev before applying changes.
- Use iw dev to verify radio status after applying changes.
- Refer to the CompexWRT V10.0 documentation supplied by Compex for the full set of UCI options and configuration file locations.

9. Troubleshooting

Power LED not lit	Check 12V DC power supply voltage and polarity. Verify DC jack connection is secure. Confirm supply provides at least 2A continuous current.
Ethernet link not established	Verify Ethernet cable is fully seated in RJ45 port. Confirm link partner supports the relevant speed (1G or 2.5G). Try a different cable or port.
Wi-Fi SSIDs not visible	Confirm all 8 U.FL antenna connectors in use are properly attached. Allow the board sufficient boot time. Refer to CompexWRT documentation to verify radio settings are enabled.
Poor Wi-Fi throughput	Verify antenna orientation and placement. Ensure correct channel and bandwidth settings. Check for RF interference sources nearby.
Bluetooth not detected	Confirm the Bluetooth U.FL antenna is connected. Verify the Bluetooth software burning interface wiring if custom firmware was loaded.
Board overheating	Ensure adequate airflow clearance around the SoC and radio components. Verify ambient temperature is within operating range (-20 to +70°C).
Firmware upgrade fails	Do not power off during update. Use a wired Ethernet connection for firmware upload. Reset to factory defaults before upgrading if previously customised.
MiniPCle module not detected	Ensure the module is correctly seated in the MiniPCle slot. Verify the module is supported by the installed CompexWRT firmware version.
Factory Reset	To restore factory default settings: •Press and hold the RESET button for 10 seconds while the board is powered on. •Alternatively, via SSH or serial console, run: <code>rm -rf /overlay/*</code> <code>reboot</code> The board will reboot and restore all settings to factory defaults. This process takes approximately 60 seconds.

10. Safety Precautions

Electrical Safety

- Disconnect power before connecting or disconnecting any cables or performing any maintenance.
- Never exceed the rated input voltage (12 V DC). Overvoltage will permanently damage the board.
- Verify power supply polarity before connecting. Reverse polarity damage is not covered under warranty.
- Keep the board away from conductive materials that may cause short circuits.

RF / Antenna Safety

- Never operate Wi-Fi radios without antennas or 50 Ω termination loads on all active U.FL ports.
- Do not modify antennas or RF circuitry. Unauthorised modifications will void regulatory compliance.

Thermal Safety

- Operating the board above 70°C ambient temperature may cause thermal shutdown or permanent damage. Ensure adequate cooling is installed.
- Do not obstruct ventilation around the board.
- Allow the board to cool down before handling after extended operation.

ESD Precautions

- Handle the board only at a properly grounded ESD workstation.
- Wear an ESD wrist strap connected to ground at all times when handling the board.
- Store the board in its original ESD protective bag when not in use.
- Avoid touching PCB traces, IC pads, or connector pins directly.

11. Technical Support

Compex Systems Pte Ltd provides engineering and technical support for the WPQ872. For technical assistance, integration support, or to report a hardware issue, please contact:

Company	Compex Systems Pte Ltd
Headquarters	Singapore
Sales Enquiries	sales@compex.com.sg
Technical Support	https://compex.com.sg/support-downloads/
Website	https://compex.com.sg
Product Page (WPQ872)	https://compex.com.sg/shop/embedded-board/802-11ax/wpq872-2/
Qualcomm Design Centre	Qualcomm Authorized Design Centre (ADC) since 2014

Before contacting support, please:

- Note the firmware version (visible via webUI: System > Software, or via SSH/serial console: `cat /etc/openwrt_release`)
- Record the MAC address of the board (visible on PCB label).
- Describe the issue with steps to reproduce, observed symptoms, and host platform details.

For sample requests, pre-production evaluations, or OEM/ODM partnership enquiries, contact the Compex sales team at sales@compex.com.sg.

12. Full Specifications

Model Number	WPQ872
SoC	Qualcomm IPQ8072A 'Hawkeye' Series, Quad-Core ARM 64-bit A53 @ 2.2GHz
Reference Design	Qualcomm Atheros HK09
System Memory	1x 512MB DDR4 2400MHz, 16-bit interface
NAND Flash	256MB
NOR Flash	8MB
Wi-Fi Standard	IEEE 802.11ax (Wi-Fi 6) - backward compatible to 802.11a/b/g/n/ac
2.4GHz Radio	On-board 4x4 MU-MIMO OFDMA 802.11b/g/n/ax; max 17dBm per chain
5GHz Radio	On-board 4x4 MU-MIMO OFDMA 802.11a/n/ac/ax; max 17dBm per chain
Frequency Ranges	2.4GHz: 2.412 ~ 2.472GHz; 5GHz: 5.150 ~ 5.825GHz
Modulation	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM
Antenna Connectors	8x U.FL connectors (4 per band) + 1x U.FL for on-board Bluetooth
MiniPCle Slot	1x MiniPCle slot with PCIe 3.0 (4.0mm height)
Ethernet Ports	1x 1Gbps LAN RJ45 + 1x 2.5Gbps WAN RJ45
USB	1x USB 3.0 Port
Bluetooth	Qualcomm QCA4024, BLE 5.0
Serial Debug	1x 8-pin Mini-DIN Connector
Reset	1x Software Reset Button
LED Indicators	2x RGB LED indicators
Power Interface	1x DC Jack (12V, 2A)
Max Power Consumption	22.5W (board only, including Bluetooth)
Dimensions (W×H×D)	132mm × 180mm × 41.7mm
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 90°C

Operating Humidity	5% to 95% (non-condensing)
Storage Humidity	Max. 90% (non-condensing)
OS / Firmware	CompexWRT V10.0
Certification	REACH & RoHS Compliant
Ordering Code	WPQ872LV 6A02PR8F512R-TE

13. Regulatory Information

Declaration of Conformity

The WPQ872 is designed to comply with applicable regional regulatory requirements. End-product manufacturers are responsible for obtaining all necessary regulatory certifications (e.g., FCC, CE, IMDA) for their final product in each target market. The WPQ872 is provided as an embedded board for OEM/ODM integration and does not carry end-product regulatory approval.

REACH & RoHS Compliance

This product is manufactured in compliance with REACH Regulation (EC) No 1907/2006 and RoHS Directive 2011/65/EU (amended by 2015/863/EU). These regulations restrict the use of hazardous substances in electrical and electronic equipment.

Disposal & Recycling

Do not dispose of this product in unsorted municipal waste. This product is subject to the Waste Electrical and Electronic Equipment (WEEE) Directive. Return it to an authorised recycling facility or contact Compex Systems for take-back options.

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