



WPQ530

Wi-Fi 7 (802.11be) Embedded Board

Hardware User Guide

Wi-Fi 7 / 802.11be
Dual-Band On-Board

IPQ5322
Qualcomm Miami Series

2×2 2.4 GHz + 2×2 5–7 GHz
On-Board Radios

PoE 802.3at
1× 2.5GbE RJ45

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1. Introduction

Thank you for choosing the Compex WPQ530. This document provides complete hardware integration guidance for engineers and system developers deploying the WPQ530 in embedded, industrial, and networking platforms.

The WPQ530 is a compact dual-band Wi-Fi 7 embedded board powered by Qualcomm's IPQ5322 'Miami' Series quad-core ARM Cortex-A53 processor. It features on-board 2×2 2.4 GHz and 2×2 5–7 GHz radios, supporting both AP and Client modes with concurrent dual-band operation.

Key Highlights

- Qualcomm IPQ5322 'Miami' Quad-Core ARM Cortex-A53 @ 1.5 GHz SoC for high-throughput network processing.
- On-board 2×2 2.4 GHz MU-MIMO 802.11b/g/n/ax/be radio — up to 688 Mbps; max 24 dBm per chain.
- On-board 2×2 5–7 GHz MU-MIMO 802.11a/n/ac/ax/be radio — up to 5764 Mbps; max 19 dBm per chain.
- AP mode: concurrent 2.4 GHz and 5 GHz or 6 GHz operation.
- Client mode: concurrent 2.4 GHz and 5–7 GHz operation.
- 1× 2.5GbE RJ45 port for high-speed LAN/WAN connectivity.
- Power over Ethernet (PoE): supports up to 802.3at standard via the 2.5GbE port.
- 4× U.FL antenna connectors (2× 2.4 GHz + 2× 5–7 GHz).
- 6× LED (Green) + 2× LED (RGB) indicators.
- OpenWrt 23.05 firmware with full SDK and QCA binary driver support.
- REACH and RoHS compliant for global deployment.

Intended Use

The WPQ530 is an engineering-grade embedded board intended for OEM/ODM integration and product development. Typical target applications include:

- 802.11be MU-MIMO OFDMA Wi-Fi 7 access points.
- Internet of Things (IoT) gateways requiring concurrent dual-band wireless connectivity.
- HD streaming and gaming platforms requiring low-latency wireless.
- Industrial networking appliances and edge computing nodes.
- CPE (Customer Premises Equipment) and broadband gateway appliances.

2. Package Contents

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

Checklist

- 1 × WPQ530 embedded board

⚠ Note: External antennas, Ethernet cables, and power supply are not included unless specified in the order. Contact sales@compex.com.sg for accessory options.

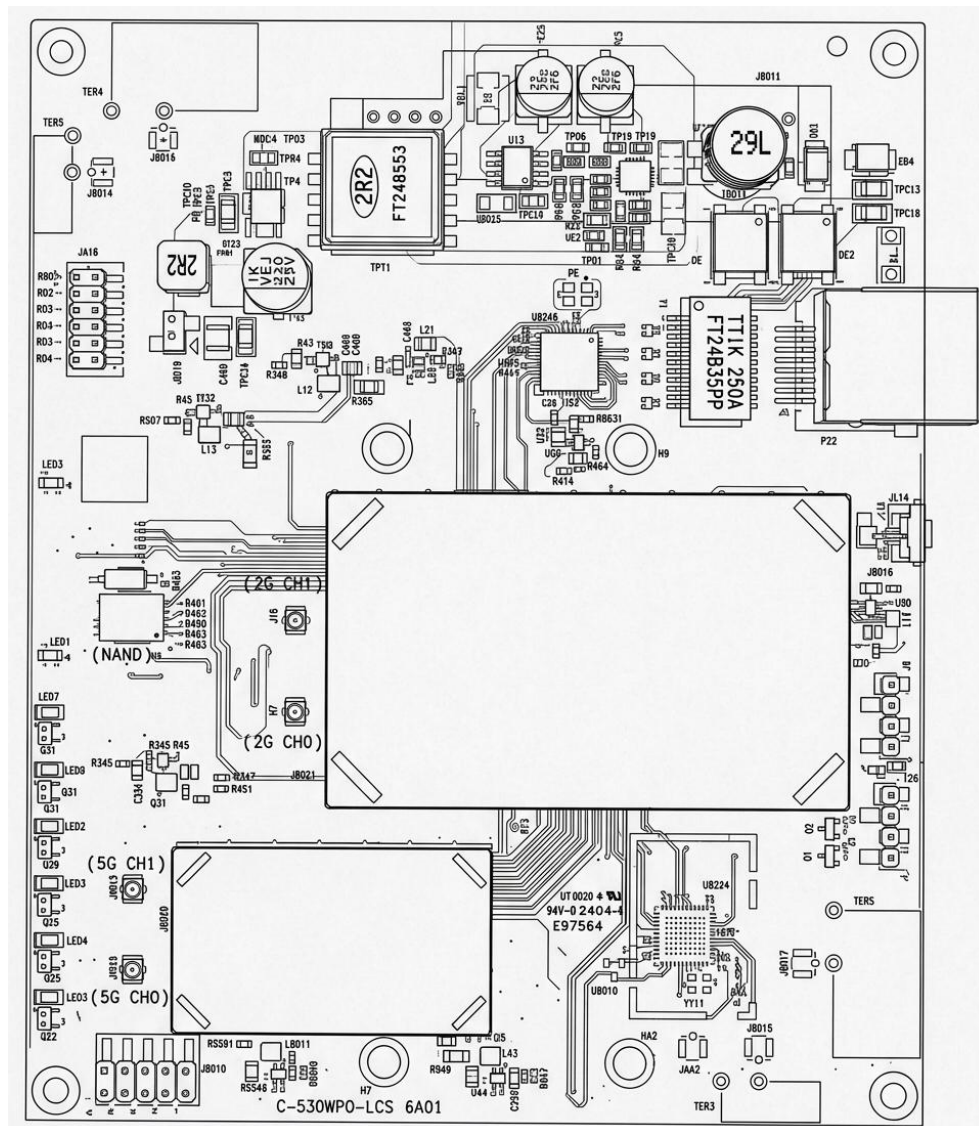
If any item is missing or damaged, contact Compex Technical Support (see Chapter 11) before proceeding.

3. Hardware Overview

The WPQ530 is a compact embedded networking platform based on the Qualcomm IPQ5322 SoC. The board features integrated dual-band 2.4 GHz and 5–7 GHz Wi-Fi 7 radios, alongside a single 2.5GbE Ethernet port with PoE 802.3at support.

3.1 Board Layout

The WPQ530 features the following major components and connectors:



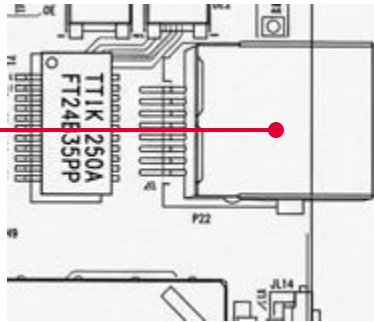
SoC	Qualcomm IPQ5322 'Miami' Series, Quad-Core ARM Cortex-A53 @ 1.5 GHz
Reference Design	Qualcomm AP.MI01.2
System Memory	1 GB DDR4, 16-bit interface (1× 16-bit)
Flash Storage	NAND Flash: 512 MB + NOR Flash: 8 MB
On-Board Wi-Fi (2.4 GHz)	2×2 MU-MIMO 802.11b/g/n/ax/be, max 24 dBm per chain; up to 688 Mbps
On-Board Wi-Fi (5–7 GHz)	2×2 MU-MIMO 802.11a/n/ac/ax/be, max 19 dBm per chain; up to 5764 Mbps
Antenna Connectors	4× U.FL connectors (2× 2.4 GHz + 2× 5–7 GHz)
Ethernet Port	1× 2.5GbE RJ45 (LAN/WAN, PoE 802.3at)
Serial / Debug	1× UART 4-Pin Connector (TTL)
JTAG	1× JTAG 10-Pin Connector
LED Connectors	1× LED 12-Pin Connector
LED Indicators	6× LED (Green) + 2× LED (RGB) Indicators
Other I/O	1× 4-Pin USB 2.0, 1× Reset Button
Dimensions (W×H×D)	135 mm × 110 mm × 21.2 mm

3.2 Connector Descriptions

Ethernet Port(RJ45)

- 1× 2.5GbE RJ45 port for high-speed LAN/WAN connectivity.
- Supports PoE 802.3at via this port.
- Supports auto-MDI/MDIX and auto-negotiation.

2x2.5G Ethernet
RJ45 (LAN/WAN)
& POE 802.3bt



U.FL RF Connectors

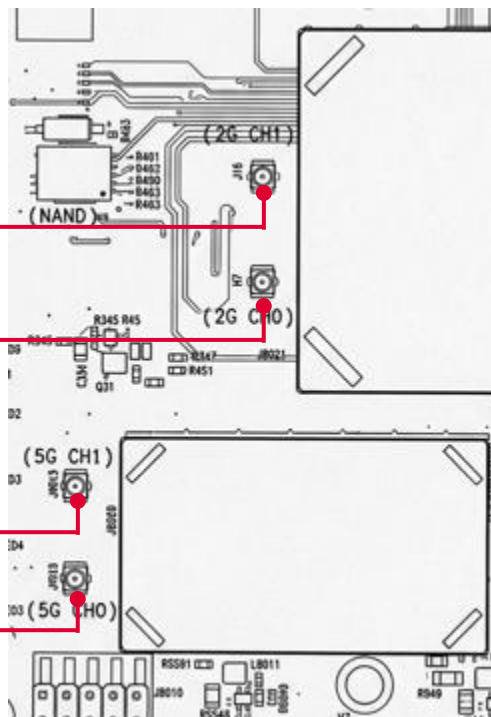
- 2× U.FL connectors for the on-board 2.4 GHz radio (2G CH0, 2G CH1).
- 2× U.FL connectors for the on-board 5–7 GHz radio (5G CH0, 5G CH1).
- Connect suitable external antennas rated for the respective frequency band.

U.FL Connector – 2.4GHz CH1

U.FL Connector – 2.4GHz CH0

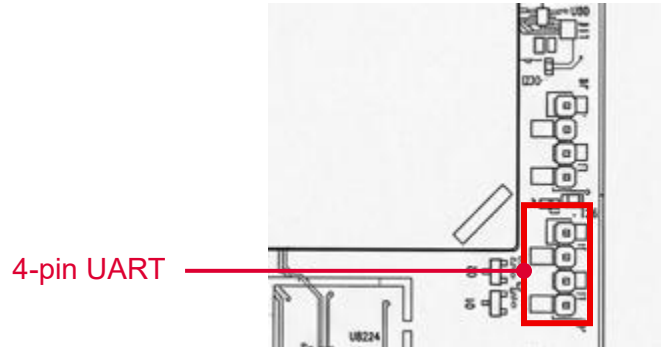
U.FL Connector – 5-7GHz CH1

U.FL Connector
– 5-7GHz CH0



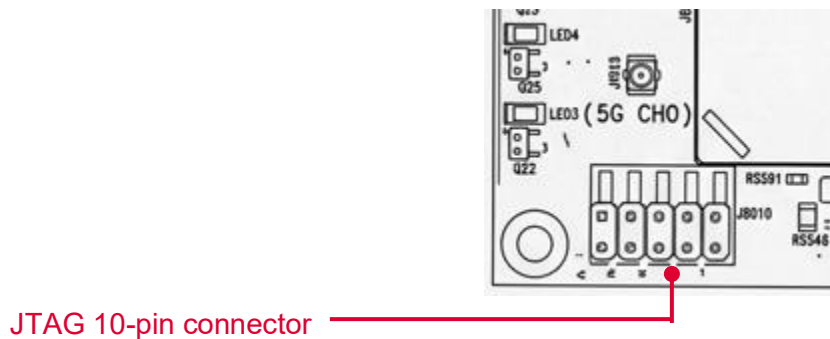
UART Debug Interface

- 1× UART 4-pin TTL header for serial console access. A Serial Converter (TTL to RS-232) is available for standard serial debugging.
- Baud rate: 115200 bps, 8N1.



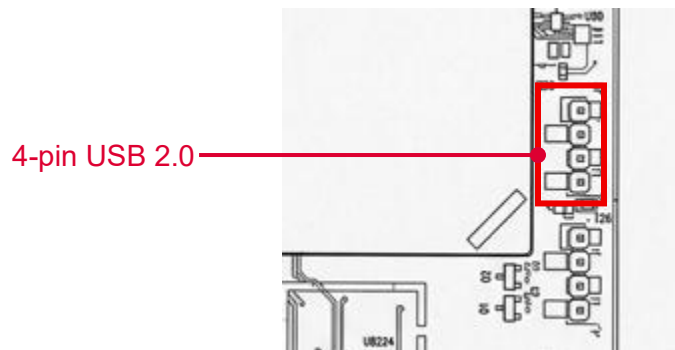
JTAG Interface

- 1× JTAG 10-pin header for direct firmware flashing using a JTAG programmer.
- Used for writing self-developed loader and firmware directly to the board.



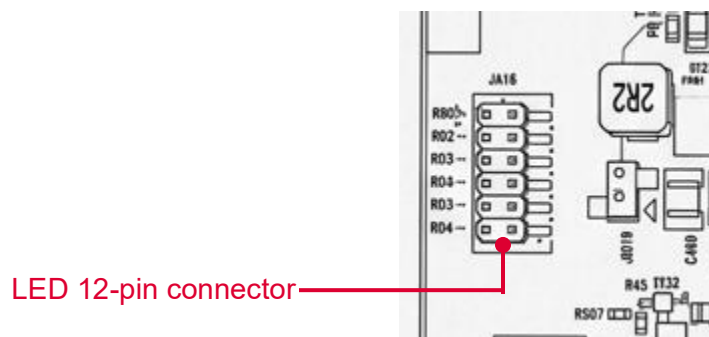
USB 2.0

- 1× 4-pin USB 2.0 connector for USB recovery.



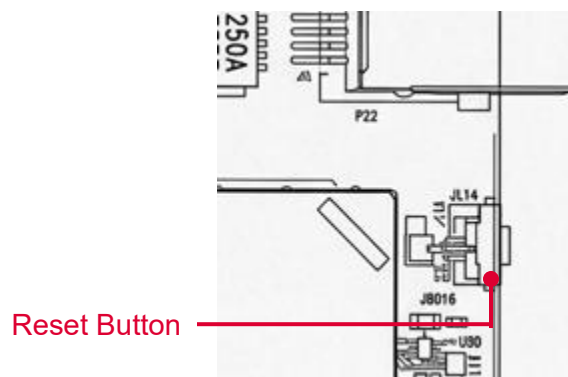
LED 12-Pin Connector

- 1× LED 12-pin connector for an external RGB LED panel, supporting up to 2 RGB LEDs.



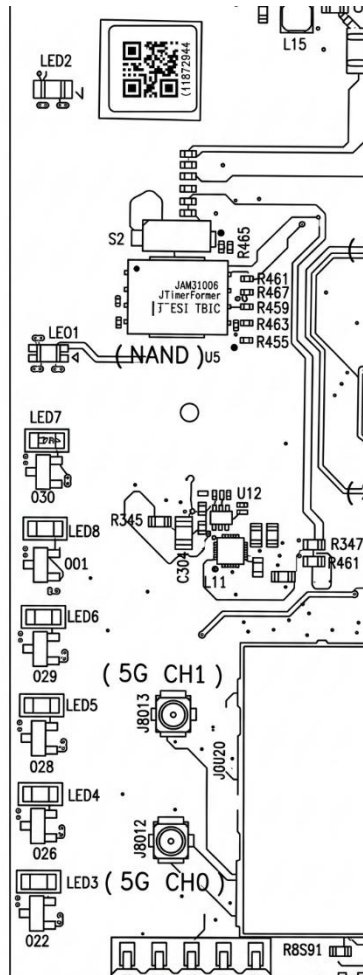
Reset Button

- Press once for firmware reboot.



3.3 LED Indicators

Color	Description
Power/Status LED	LED1 – Solid green; blinks white when 2.4 GHz Wi-Fi is enabled LED4 – Solid green when system is booting and operational.
LED5 (Green)	2.4 GHz Wi-Fi radio activity



3.4 Hardware Pinouts

GPIO Pin	Function	GPIO Pin	Function
GPIO_0	2G_PA_EN0	GPIO_27	NC
GPIO_1	2G_LNA_EN0	GPIO_28	NC
GPIO_2	NC	GPIO_29	NC
GPIO_3	NC	GPIO_30	NC
GPIO_4	2G_PA_EN1	GPIO_31	2G_WIFI_LED_CONN_R
GPIO_5	2G_LNA_EN1	GPIO_32	NC
GPIO_6	NC	GPIO_33	NC
GPIO_7	NC	GPIO_34	NC
GPIO_8	NAND_DATA3	GPIO_35	POWER_LED_R
GPIO_9	NAND_DATA2	GPIO_36	MHT_LED_CONN0_R
GPIO_10	NAND_DATA1	GPIO_37	MHT_LED_CONN1_R
GPIO_11	NAND_DATA0	GPIO_38	NC
GPIO_12	NAND_CS_N	GPIO_39	MHT_LED_CONN2_R
GPIO_13	NAND_CLK	GPIO_40	WSI_CLK_5>2
GPIO_14	SPI_CLK	GPIO_41	WSI_DAT_5>2
GPIO_15	SPI_MOSI	GPIO_42	WSI_CLK_2>5
GPIO_16	SPI_MISO	GPIO_43	NC
GPIO_17	SPI_CS_N	GPIO_44	NC
GPIO_18	UART_RX	GPIO_45	MHT_LED_CONN3_R
GPIO_19	UART_TX	GPIO_46	PCIE1_CLKREQ_N_5G
GPIO_20	RST_OUT_N	GPIO_47	PCIE1_RST_N_5G
GPIO_21	core_voltage_control[0]	GPIO_48	PCIE1_WAKE_N_5G
GPIO_22	NAPA_RST	GPIO_49	NC
GPIO_23	core_voltage_control[1]	GPIO_50	NC
GPIO_24	NC	GPIO_51	NC
GPIO_25	NC	GPIO_52	WSI_DAT_2>5
GPIO_26	NC		

Ethernet Port Pin Assignment

Pin	Signal	Pin	Signal
1	2.5G_2_N_CH0	6	2.5G_2_P_CH1
2	2.5G_2_P_CH0	7	2.5G_2_N_CH3
3	2.5G_2_N_CH1	8	2.5G_2_P_CH3
4	2.5G_2_N_CH2	9	GND
5	2.5G_2_P_CH2	10	GND

UART Pin Assignment

Pin	Signal
1	VDD_3V3
2	UART_TX
3	UART_RX
4	GND

JTAG Interface Pin Assignment

Pin	Signal	Pin	Signal
1	BT_1V8	2	BL_TMS
3	GND	4	BL_TCK
5	GND	6	BL_TDO
7	GND	8	BL_TDI
9	GND	10	BLE_RST

USB2.0 Port Pin Assignment

Pin	Signal
1	VDD_USB
2	CONN_USB_DM
3	CONN_USB_DP
4	GND

LED Pin Assignment

Pin	Signal	Pin	Signal
1	LED1_R	2	VDD_3V3
3	LED1_G	4	VDD_3V3
5	LED1_B	6	VDD_3V3
7	LED2_R	8	VDD_3V3
9	LED2_G	10	VDD_3V3
11	LED2_B	12	VDD_3V3

4. Radio Module Specifications

4.1 Wi-Fi Capability

The WPQ530 features dual on-board Wi-Fi 7 radios driven by the Qualcomm IPQ5322 SoC: a 2×2 2.4 GHz radio and a 2×2 5–7 GHz radio. Both radios operate concurrently, supporting AP and Client modes.

Wi-Fi Standard	IEEE 802.11be (Wi-Fi 7) — backward compatible to 802.11a/b/g/n/ac/ax
2.4 GHz Radio	2×2 MU-MIMO 802.11b/g/n/ax/be; up to 688 Mbps; max 24 dBm per chain
5–7 GHz Radio	2×2 MU-MIMO 802.11a/n/ac/ax/be; up to 5764 Mbps; max 19 dBm per chain
Frequency Range	2.4 GHz: 2.412–2.472 GHz 5–7 GHz: 5.180–7.125 GHz
Channel Widths	2.4 GHz: 20/40 MHz (EHT20/EHT40) 5 GHz: 20/40/80/160 MHz (EHT20–EHT160) 6 GHz: 20/40/80/160/320 MHz (EHT20–EHT320)
Modulation	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
Antenna Connectors	4× U.FL connectors (2× 2.4 GHz + 2× 5–7 GHz)
Operating Modes	AP mode: 2.4 GHz + (5 GHz or 6 GHz) Client mode: 2.4 GHz + (5–7 GHz)
Security	WPA3-Personal, WPA3-Enterprise, OWE, WPA2 (backward compatible)
High Power Variants	Available for 5 GHz and 6 GHz; contact sales@compex.com.sg

4.2 Notes & Recommendations

- Always connect appropriate antennas to all 4 U.FL ports before powering on. Never operate with open (unterminated) U.FL connectors, as this may damage the RF front-end.
- In AP mode, the board supports concurrent 2.4 GHz and either 5 GHz or 6 GHz operation (frequency selection via firmware configuration).
- In Client mode, the board supports concurrent 2.4 GHz and 5–7 GHz operation.
- For 6 GHz band operation, verify local regulatory approval in your target market before deployment.
- Use antennas rated for the specific frequency band with 50 Ω impedance matching.
- Maintain a minimum safety distance of 20 cm from antennas during normal operation.
- High-power variants (5 GHz and 6 GHz) are available. Contact sales@compex.com.sg for details.
- Do not modify the on-board antenna circuitry or U.FL connector wiring. Unauthorised modifications will void regulatory compliance.

5. Mechanical Specifications

5.1 Board Dimensions

Dimensions (W × H × D)	135 mm × 110 mm × 21.2 mm
PCB Thickness	Standard (multi-layer PCB)

5.2 Environmental Ratings

Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +90°C
Relative Humidity (Operating)	5% to 95%, non-condensing
Relative Humidity (Storage)	Max 90%, non-condensing

5.3 Mounting & Installation Notes

- The WPQ530 board includes mounting holes at the corners for secure mechanical integration into an enclosure or chassis.
- Ensure adequate clearance around all connectors (RJ45, U.FL, UART, JTAG, USB, LED connector) for cable routing.
- Provide sufficient airflow or thermal management for the SoC, particularly in high-throughput or high-ambient-temperature applications.
- Do not stack objects directly on the board surface. Ensure the PCB is mounted horizontally or secured in a suitable bracket.
- Route Ethernet and antenna cables away from high-frequency signal traces on the PCB.
- All dimensions are in millimetres. Refer to the mechanical drawing in the datasheet for precise mounting hole locations.

6. Power Specifications

6.1 Power Requirements

PoE Input	802.3bt standard via 2.5GbE Ethernet port
Power Consumption (Board only, Max)	16 W

6.2 Power Delivery Protection

- Over-Voltage Protection: Protects against supply voltage surges above rated input.
- Over-Current Protection: Automatically limits current draw to safe levels.
- Short Circuit Protection: Prevents PCB damage from momentary short circuits.
- ESD Protection: TVS diodes on all external-facing interface pins.

6.3 Notes & Recommendations

- Ensure the PoE source can deliver stable power under peak load conditions, especially when both radios are active simultaneously.
- Disconnect power before connecting or disconnecting any cables or peripherals.

7. Installation & Integration

Follow these steps carefully to set up or install the WPQ530.

7.1 Pre-Installation Checklist

- Verify package contents (Section 2).
- Ensure a PoE 802.3at-compliant PSE (switch or injector) is available with sufficient power capacity.
- Prepare 4× antennas: 2× for 2.4 GHz and 2× for the 5–7 GHz band, with U.FL pigtail connectors.
- Prepare an Ethernet cable (Cat5e minimum; Cat6A recommended for 2.5GbE).
- Ground yourself with an ESD wrist strap before handling the board.

7.2 Power Connection

- Connect a PoE 802.3at-compliant Ethernet cable to the 2.5GbE RJ45 port on the WPQ530.
- Connect the other end to the PoE port on your PSE.
- Apply power. The Power LED should illuminate within 3 seconds. Boot completes within approximately 60 seconds.

7.3 Ethernet Connection

- The 2.5GbE RJ45 port serves as both the power input (PoE) and the LAN/WAN Ethernet interface.
- Once powered on, the Ethernet interface is available for network configuration.
- Configure IP addressing — static or DHCP — as required (see Section 8 for default settings).
- Verify link LEDs for the Ethernet port to confirm connectivity.

7.4 Antenna Connection

- Connect 2× antennas to the 2.4 GHz U.FL connectors (2G CH0, 2G CH1).
- Connect 2× antennas to the 5–7 GHz U.FL connectors (5G CH0, 5G CH1).
- Ensure all 4 U.FL connections are firmly seated before applying power.

8. Configuration

The WPQ530 runs an OpenWrt 23.05-based firmware stack and is configured via the web user interface (webUI) or SSH/serial console command line.

8.1 Default Settings

Default Management IP	192.168.1.1
Default Subnet	192.168.1.0/24
WebUI Port	80 (HTTP) / 443 (HTTPS)
Default Username	admin
Default Password	password
SSH Access	Port 22 (enabled by default)
UART Baud Rate	115200 bps, 8N1
Default Mode	Router / Access Point
Firmware	OpenWrt 23.05

8.2 Accessing the Web Interface

- Connect a PC to the WPQ530's 2.5GbE Ethernet port via a PoE-capable switch or a PoE injector with a secondary LAN port.
- Set the host PC's Ethernet adapter to a static IP address in the 192.168.1.x range (e.g. 192.168.1.10, subnet 255.255.255.0).
- Open a web browser and navigate to <http://192.168.1.1>.
- Log in with username admin and the default password.
- The WebUI will load, providing access to network and system configuration.

8.3 Wireless Configuration

Wireless settings can be configured via the webUI, or via SSH/serial console using UCI commands or by directly editing the configuration files.

- Via SSH: Connect using PuTTY or any SSH client to 192.168.1.1 on port 22.
- Via Serial Console: Connect via the UART 4-pin header and a TTL serial converter.
- Wireless configuration files are located at /etc/config/wireless.
- Use UCI commands to modify wireless settings, for example:

```
uci set wireless.wifi0.disabled='0'
```

```
uci set wireless.wifi0.htmode='EHT40'
```

```
uci commit wireless
```

```
wifi
```

- Use iw dev to verify radio status after applying changes.

9. Troubleshooting

Power LED not lit	Verify PoE source is 802.3at compliant. Check Ethernet cable connection to the 2.5GbE RJ45 port. Confirm PoE source has sufficient power budget.
Ethernet link not established	Verify Ethernet cable is fully seated in RJ45 port. Confirm link partner supports 2.5GbE. Try a different cable or port.
Cannot access WebUI	Confirm host PC IP is set to 192.168.1.x/24. Disable any VPNs or firewall rules blocking 192.168.1.1. Verify Ethernet link LED is active.
2.4 GHz SSID not visible	Verify antennas are connected to both 2.4 GHz U.FL ports (2G CH0, 2G CH1). Confirm the board has completed boot (~60 sec). Use iw dev or uci show wireless to verify radio is enabled.
5 GHz / 6 GHz SSID not visible	Verify antennas are connected to both 5–7 GHz U.FL ports (5G CH0, 5G CH1). Confirm operating mode (AP mode supports 5 GHz or 6 GHz). Use iw dev to verify radio status.
Poor Wi-Fi throughput	Verify antenna orientation and placement. Avoid metal obstructions near antennas. Ensure correct channel and bandwidth settings (EHT20–EHT320).
Client mode not connecting	Verify SSID and passphrase are correctly configured. Confirm the target AP supports the selected frequency band. Check signal strength.
Module overheating	Ensure adequate airflow clearance around the board. Verify ambient temperature is within operating range (-20°C to +70°C). Attach heatsink to SoC if required.
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 modified (see Factory Reset below).
Factory Reset	To restore factory default settings: •Press and hold the RESET button for 10 seconds while the module is powered on. •Go to webUI > System > Reset Board. •Alternatively, via SSH or serial console, run: <pre>rm -rf /overlay/* reboot</pre> The board will reboot and restore all settings to factory defaults. This process takes approximately 60 seconds.

10. Safety Precautions

Electrical Safety

- Disconnect power (unplug Ethernet/PoE cable) before connecting or disconnecting any cables or peripherals.
- Use only a PoE 802.3at-compliant source to power the board. Non-compliant sources may damage the board.
- 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 4 U.FL ports.
- Maintain a minimum safety distance of 20 cm from the antennas during normal operation.
- For 6 GHz operation, ensure regulatory approval and proper certification for your target market.
- Do not modify antennas or RF circuitry. Unauthorized 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 WPQ530. 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 (WPQ530)	https://compex.com.sg/shop/embedded-board/wpq530/
Qualcomm Design Centre	Qualcomm Authorized Design Centre (ADC) since 2014

Before contacting support, please:

- Review this user guide and the Troubleshooting section (Section 9).
- Note the firmware version (visible in webUI: System > Software).
- Record the MAC address of the board (visible on PCB label or in webUI).
- 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	WPQ530
SoC	Qualcomm IPQ5322 'Miami' Series, Quad-Core ARM Cortex-A53 @ 1.5 GHz
Reference Design	Qualcomm AP.MI01.2
System Memory	1 GB DDR4, 16-bit interface (1× 16-bit)
NAND Flash	512 MB
NOR Flash	8 MB
On-Board Wi-Fi (2.4 GHz)	2×2 MU-MIMO 802.11b/g/n/ax/be, max 24 dBm per chain; up to 688 Mbps
On-Board Wi-Fi (5–7 GHz)	2×2 MU-MIMO 802.11a/n/ac/ax/be, max 19 dBm per chain; up to 5764 Mbps
Wi-Fi Standard	IEEE 802.11be (Wi-Fi 7) — backward compatible to 802.11a/b/g/n/ac/ax
Frequency Range	2.4 GHz: 2.412–2.472 GHz; 5–7 GHz: 5.180–7.125 GHz
Channel Widths	2.4 GHz: EHT20/EHT40; 5 GHz: EHT20–EHT160; 6 GHz: EHT20–EHT320
Modulation	OFDMA: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
Antenna Connectors	4× U.FL connectors (2× 2.4 GHz + 2× 5–7 GHz)
Ethernet Port	1× 2.5GbE RJ45 (LAN/WAN)
PoE	802.3at via 2.5GbE port (board power input)
LED Connector	1× LED 12-Pin Connector
JTAG	1× JTAG 10-Pin Connector
UART Debug	1× UART 4-Pin Header (TTL)
USB	1× 4-Pin USB 2.0
Reset Button	1× Reset Button
LED Indicators	6× LED (Green) + 2× LED (RGB)
Max Power Consumption	16 W (board only)

Dimensions (W×H×D)	135 mm × 110 mm × 21.2 mm
Operating Temperature	-20°C to +70°C
Storage Temperature	-40°C to +90°C
Humidity	5–95% non-condensing (operating); Max 90% (storage)
OS / Firmware	OpenWrt 23.05 (WebUI + SSH CLI)
SDK	SDKs with QCA binary drivers available for software developers
Certification	REACH & RoHS Compliant
Ordering Code (Standard)	WPQ530 6A01PR8F1GB-TE (AP: 2.4 GHz + 5/6 GHz; Client: 2.4 GHz + 5–7 GHz)
Ordering Code (5 GHz HP)	WPQ530 6A01PR8F1GB5H-TE (AP & Client: 2.4 GHz + 5 GHz)
Ordering Code (6 GHz HP)	WPQ530 6A01PR8F1GB6H-TE (AP & Client: 2.4 GHz + 6 GHz)

13. Regulatory Information

Declaration of Conformity

The WPQ530 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 WPQ530 is provided as an embedded module for OEM/ODM integration and does not carry end-product regulatory approval.

6GHz Band Restrictions

Operation in the 6 GHz frequency band is subject to national regulatory authority approval. Manufacturers must ensure compliance with local regulations before enabling 6 GHz radio operation. Unauthorized use of restricted frequency bands may be illegal and could cause harmful interference to other services.

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. At the end of its service life, return the product to an authorized recycling facility or contact Compex Systems for take-back options.

Legal Notices

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