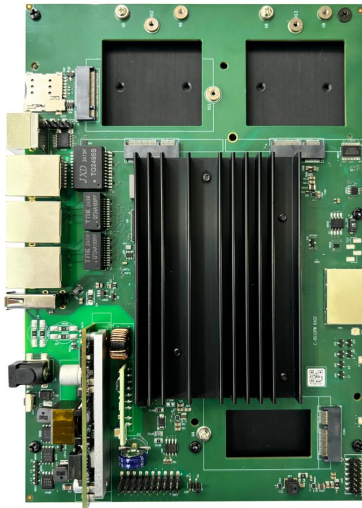


## Qualcomm's IPQ9550 Embedded Board Supporting WiFi 7

WiFi 7 support / 2 x 2.5Gbps / 1x 10Gbps  
3 x E Key Socket with PCIe 3.0 compatibility /  
4x4 MU-MIMO OFDMA

**Model: WPQ951**



### KEY FEATURES

- Qualcomm IPQ9550 Quad-Core ARM Cortex-A73 @ 1.5 GHz processor.
- Flexible Wi-Fi 7 radio configurations via 3x (NGFF) E Key Socket with PCIe 3.0
- 2x 2.5Gbps ethernet port, 1x 10Gbps ethernet port
- 1x USB 2.0 port
- Supports up to 3bt standard through the 10Gbps Ethernet port

### APPLICATIONS

- Internet of Things (IoT)
- HD streaming and gaming

## Specifications

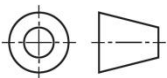
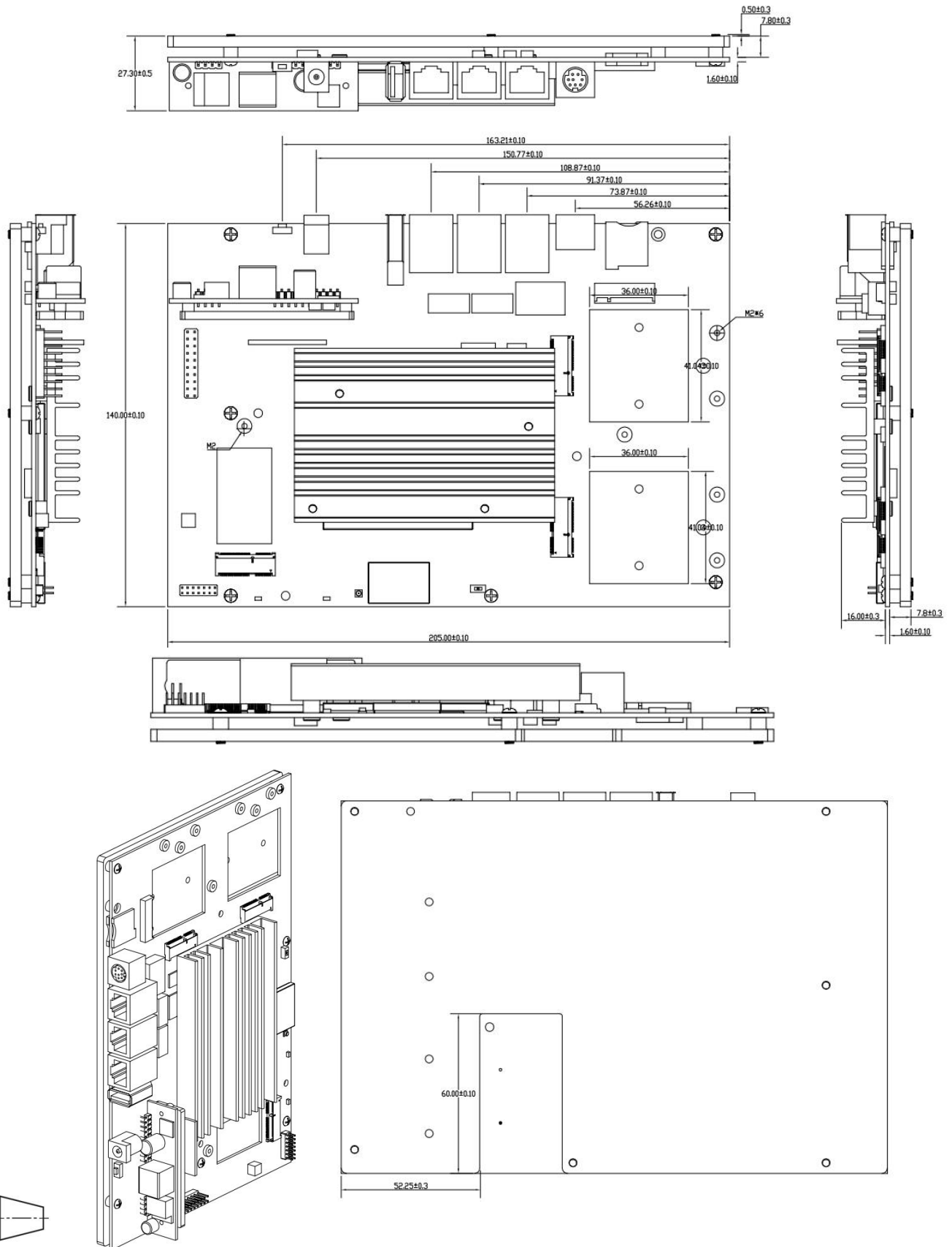
Chipset	Qualcomm IPQ9550 Quad-Core ARM Cortex-A73 @ 1.5GHz processor 'Alder' Series
Reference Design	Qualcomm AP.AL02.3
System Memory	2GB (2x1GB), DDR4 32-bit (2x16-bit) interface
Flash	NAND Flash: 256MB NOR Flash: 32MB eMMC: 16GB
NGFF Slot	3x M.2 (NGFF) E Key Socket with PCIe 3.0
Interface	2x 2.5Gigabit Ethernet LAN/WAN RJ45 Port 1x 10Gigabit Ethernet LAN/WAN RJ45 Port 1x USB 2.0 Port 1x UART 4 Pin Connector 1x JTAG 20 Pin Connector 1x LED 14 Pin Connector 1x MINI DIN8P 1x Reset Button
LED	2x LED Indicators
DC Power	1x DC Jack Connector: 12V
Power Consumption (Board only)	8.5W (Max)
Power over Ethernet (PoE)	Supports up to 3bt standard through the 10Gbps Ethernet port
Certification	REACH & RoHS Compliance
Environmental Temperature	Operating temperature: -20° C to 70° C, Storage: -40° C to 90° C
Environmental Humidity, Non-Condensing	Operating: 5% to 95%, Storage: Max. 90%
Dimensions (W x H x D) in mm	205 x 140 x 27.8

1. The Serial Port is a 4-pin header (TTL). A Serial Converter is available to change the TTL signals on the board to RS-232 signals for debugging.

2. The JTAG Port is a 20-pin header. A JTAG kit is for writing your self-developed loader and firmware directly.

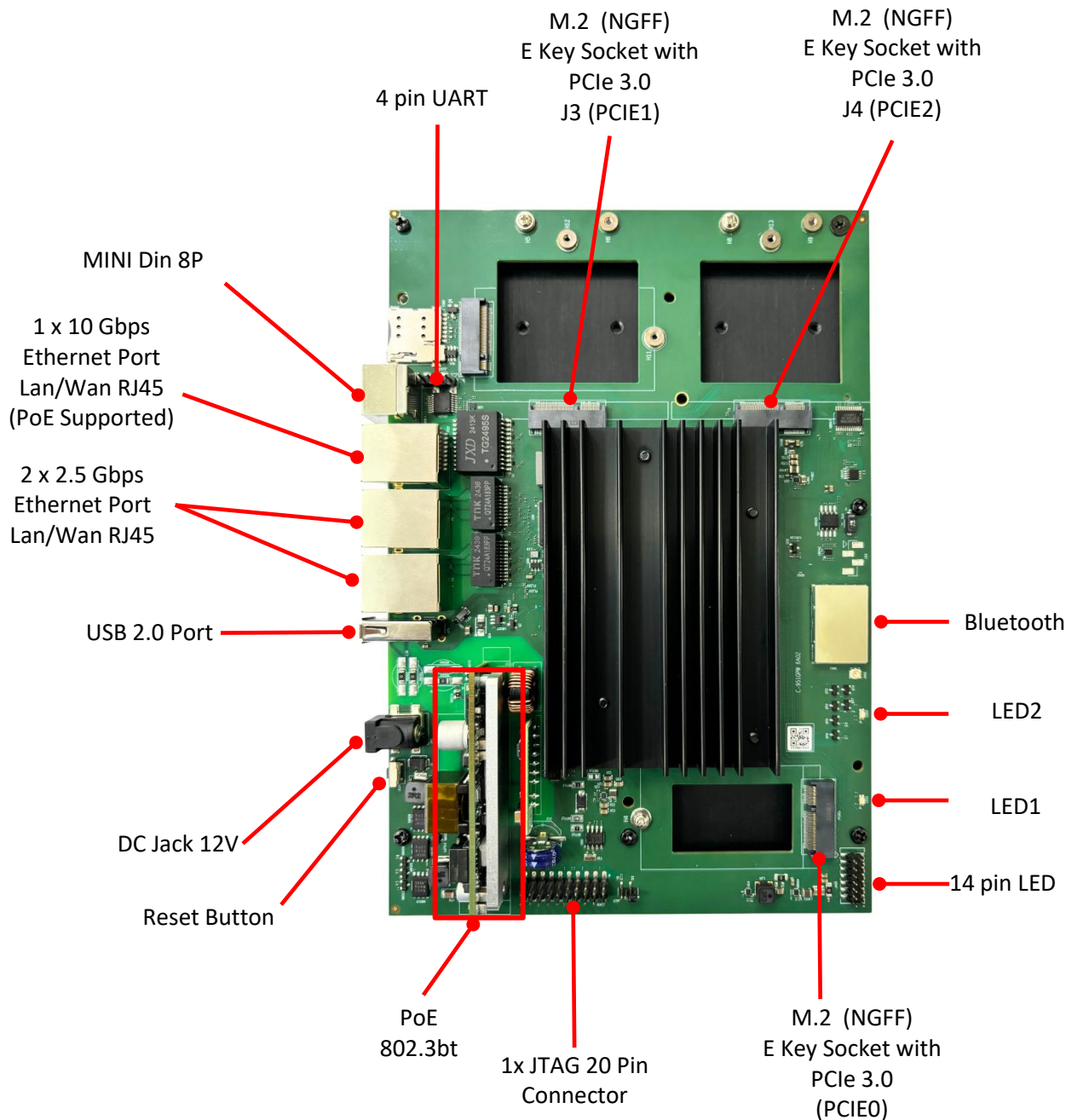
\*Configurations are subject to change without notifications.

## Mechanical Dimensions



All dimensions are in mm.

## Component Map



## Firmware / Software

Firmware

OpenWRT 19.07

## Development Kits

SDK

SDKs with QCA binary drivers are available for software developers.

Accessory

JTAG Programmer, Serial Converter, Power Supply Only if available

## Ordering Options

Item Code	Processor	Onboard WiFi radio
WPQ951 6A02NR32F2GB-TE	IPQ9550	-