DATASHEET
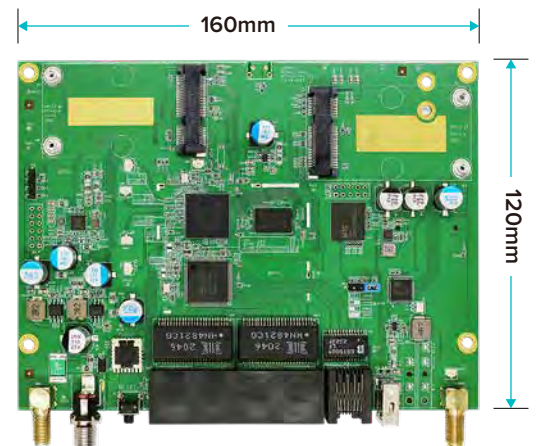
2.4GHz, Wi-Fi HaLow, GPS, LoRa

AP7622-WH1

5G/4G LTE Router Board
Functions by MT7622 w/2.4GHz

Description

The AP7622-WH1 is a versatile 5G/4G LTE router board powered by the MediaTek MT7622 chipset, featuring Wi-Fi 2.4GHz, Wi-Fi HaLow, GPS, and LoRaIoT capabilities. It supports Wi-Fi 6 speeds up to 5702 Mbps when equipped with the AW7915 series Wi-Fi modules. And it is also equipped with WiFi Halow module MM610X-001, which supports the construction of Wi-Fi HaLow networks based on the IEEE 802.11ah specification.

OPENWRT firmware is available for integration with Wi-Fi, Wi-Fi HaLow, LoRa WWAN module, and cellular modules, which are sold separately. The board measures 12 × 16 cm and includes a high-performance 1.35GHz ARM® Cortex-A53 MPCore™ CPU, multiple interfaces (UART, I2C, SPI, GPIO), and a variety of connectivity options (SGMII, RGMII, PCIe 2.0, USB 2.0/3.0, 5-port switch). It supports Bluetooth, 802.11n/ac/ax WLAN via PCIe, and prioritizes streaming services with its hardware NAT engine and QoS. Designed for smart Wi-Fi AP routers and home gateways, it's an ideal solution for advanced network applications.

160mm

120mm

Features

- Mediatek MT7622 chipset with Interface UART, PWM, MDC, MDIO, JTAG, I2C, SPI, GPIOs and USB(LTE) port.
- Flash SPI NAND Flash 128MB (1Gb), Max 512MB (4Gb)
- DDR3 256MB (2Gb)
- Data Rate up to 5702 Mbps
- SIM card slot
- Security: 64/128-bits WEP, TKIP,WPA, WPA2,AES,WPS
- Multi-modes: MiFi, AP/Client
- 5 Giga LAN ports

SOFTWARE FEATURE

- Support OPENWRT, MTK SDK
- Network Features:
- Video, Storage
- DHCP Client/Relay/Server
- Dynamic DNS
- NTP Client
- DNS Cache/Proxy
- Firewall

- MAC/IP/Port Filter
- Virtual Server
- DMZ
- Content Filter