DATASHEET

Functions by MT7622
w/2.4/5GHz Wi-Fi manufacturer

AP7622-WH1

Wi-Fi Cellular HaLow Powerful Router

Description

The AP7622-WH1 is a versatile Wi-Fi 6, Cellular 5GNR/4G LTE, HaLow router powered by the MediaTek MT7622 chipset, featuring 2.4/5GHz Wi-Fi, GPS, and LoRa IoT capabilities. It supports Wi-Fi 6 speeds up to 1800 Mbps when equipped with the AW7915 series Wi-Fi modules.

Firmware is available for integration with Wi-Fi and cellular modules, which are sold separately. The board measures 12 x 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.

204mm

125mm

43mm

Features

HARDWARE FEATURE

- 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 1800 Mbps
- Security: 64/128-bits WEP, TKIP,WPA, WPA2,AES,WPS
- 5 x 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