DATASHEET 802.11ah Wi-Fi HaLow IoT Ethernet to USB C Dongle

AP7628-UWH

DESCRIPTION

The HaLow long-range transmission CLI device adopts a USB Type C interface for power supply and supports USB-Ethernet port functionality, allowing for the direct generation of an Ethernet network interface through the USB.

The hardware utilizes the Mediatek MT7628 SOC and Morse Micro HaLow wireless communication technology.

KEY FEATURES

- Wi-Fi 4, Wi-Fi HaLow wireless combined in one IoT Smart Control Gateway
- Mediatek MT7628 SoC
- Wi-Fi HaLow Morse Micro MM6108
- Type-C 10/100M bps Ethernet
- Powered by USB Type-C
- Security: 64/128-bits WEP, TKIP, WPA, WPA2, AES, WPS
- WiFI/Halow Client/Bridge

Specifications|Hardware Features

Version: 1.0

Release date: 2023-10-04

Chipset	Mediatek MT76X8, Morse Micro MM610X
System Memory	DDR2 512Mbit
NOR Flash	128Mbit
Wireless / Wi-Fi 4	2T2R Mode 802.11n 20MHz/40MHz 802.11b/g
Frequency Range	2.412 ~ 2.484GHz (subject to local regulations) USA, Canada (FCC):11 channels (2.412GHz~2.462GHz) Europe (CE): 13 channels (2.412GHz~2.472GHz) Japan(TELEC): 14 channels (2.412GHz~2.472GHz, 2.484MHz)
Data Rate	802.11n: up to 300Mbps 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps
Wireless / Wi-Fi HaLow	
Frequency Range	850MHz ~ 950MHz (subject to local regulations)
Data Rate	802.11ah: 1/2/4/8MHz bandwidth(varies by country)
Interface	USB Type-C ,5V SMA connector for antenna Reset Button x 1
Power	USB Type-C , DC 5V
Power consumption	<5W
Transmit Power (EIRP)	11n HT40 MCS7: +13 dBm 11b CCK: +18 dBm 11g OFDM: +15 dBm 11ah: +21 dBm (Typical) +/- 2dBm @MCS0 +18 dBm (Typical) +/- 2dBm @MCS7
Environmental Temperature	Operating: -10ºC to 60ºC, Storage: -40ºC to 85ºC
Environmental Humidity	Operating: 5% to 95%, Storage: Max. 90%
Dimension (W x H x D) in mm	W99.6 x H62 x D28mm (Dimensions exclude antenna)

Specifications | Software Features

Network Features	IPv4/IPv6 DHCP Client/Relay/Server Dynamics DNS NTP Client DNS Cashe/Proxy
Wireless / Wi-Fi 4	Support Multiple SSID Security: WEP 64/128, TKIP, WPA, WPA2 mixed, 802.1x and 802.11i
Wireless / Wi-Fi HaLow	AP Mode/Client Mode Security: WPA3