

DATASHEET

Wi-Fi HaLow CERTIFICATED Gateway: AP7688-WHM



DESCRIPTION

ARFHL-AP is a WiFi4 & Wi-Fi HaLow IoT Gateway with RS232 console for industrial control.

KEY FEATURES

- Wi-Fi 4, Wi-Fi HaLow wireless combined in one IoT Smart Control Gateway
- 10/100M bps Ethernet
- Support boot from Flash
- Wi-Fi 4 Data Rate up to 300Mbps
- Wi-Fi HaLow Data Rate up to 20Mbps
- Security: 64/128-bits WEP, TKIP, WPA, WPA2, AES, WPS
- Multi-modes: Gateway, AP/Client

Specifications | Hardware Features

Chipset	MediaTek MT7628AN, MorseMicro MM6108
System Memory	128 Byte
NOR Flash	32 Byte
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
Interface	USB Type-A 5V SMA plug *1 Reset button *1
DC Power	12.0V~ 1A
Power consumption	<5W

Version: 1.0

Release date: 2023-09-22

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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
Certification	FC, IC, CE, RCM, NCC
Environmental Temperature	Operating: -20°C to 65°C, Storage: -40°C to 85°C
Environmental Humidity, Non-Condensing	Operating: 5% to 95%, Storage: Max. 90%
Dimension (W x H x D) in mm	128 x 210 x 33.9
Antenna	Wi-Fi antenna: 2.4GHz PCB antenna 1.5dBi x 2, Wi-Fi HaLow antenna: US/AU/JP/TW: 900MHz Dipole antenna x 1, 2.5dBi or EU/SG: 850-870MHz Dipole antenna x 1, 2.5dBi

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