

DATASHEET

Wi-Fi HaLow Gateway ARFHL-AP



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, MM610X-01-2A(2B)
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
Interface	USB Type-C 5V (optional) SMA plug *3. Reset button
Reset Buttons	1x H/W Reset Button, 1x S/W Reset Button
DC Power	12.0V~1000mA
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
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