

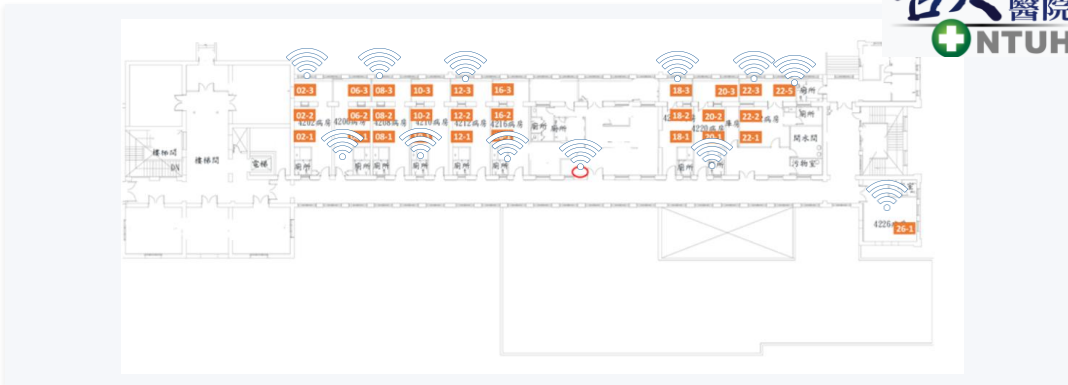


Computex Taipei 2026

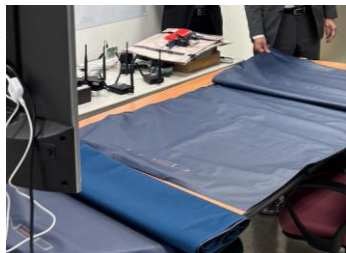
WiFi HaLow Product Application

HaLow Patient Pressure Bed Monitoring Solution

Deployment Overview



3 Patient Pressure Monitors → HaLow-R Gateway → Nursing Station



Products



HaLow-R

Wi-Fi HaLow + 2.4 GHz Wi-Fi

Role: Central Gateway
Relays bedside data to the nursing station.



AHDB7394

Sub-GHz Wi-Fi HaLow Module

Role: Patient Pressure Monitor
Sends pressure-sensing data from each bed.

HaLow Sewage Discharge Monitoring Solution

Deployment Overview



Products

HaLow-Cam



Sub-GHz Wi-Fi HaLow Camera

Role: Remote Monitoring
Captures images to verify wastewater discharge status.

HaLow Datalogger



Wi-Fi HaLow + 4G LTE

Role: Data Collection & Backhaul
Aggregates sensor data and forwards records to the control center.

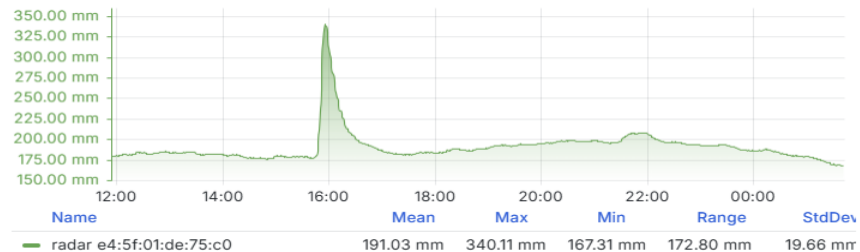
URLS-601



60 GHz Radar Level Sensor

Role: Water-Level Measurement
Non-contact monitoring for sewer channel level and event logging.

ST0102 Radar (meter) ⓘ



HaLow Smart Factory ESG Monitoring Solution

Deployment Overview



Products



HaLow-R485

Wi-Fi HaLow + RS-485

Role: Industrial Data Bridge
Connects Modbus/RS-485 meters and sensors to the HaLow network.



HaLow-R

Wi-Fi HaLow + 4G

Role: Data Gateway
Aggregates environmental data for cloud dashboards and ESG reporting.



URLS-601

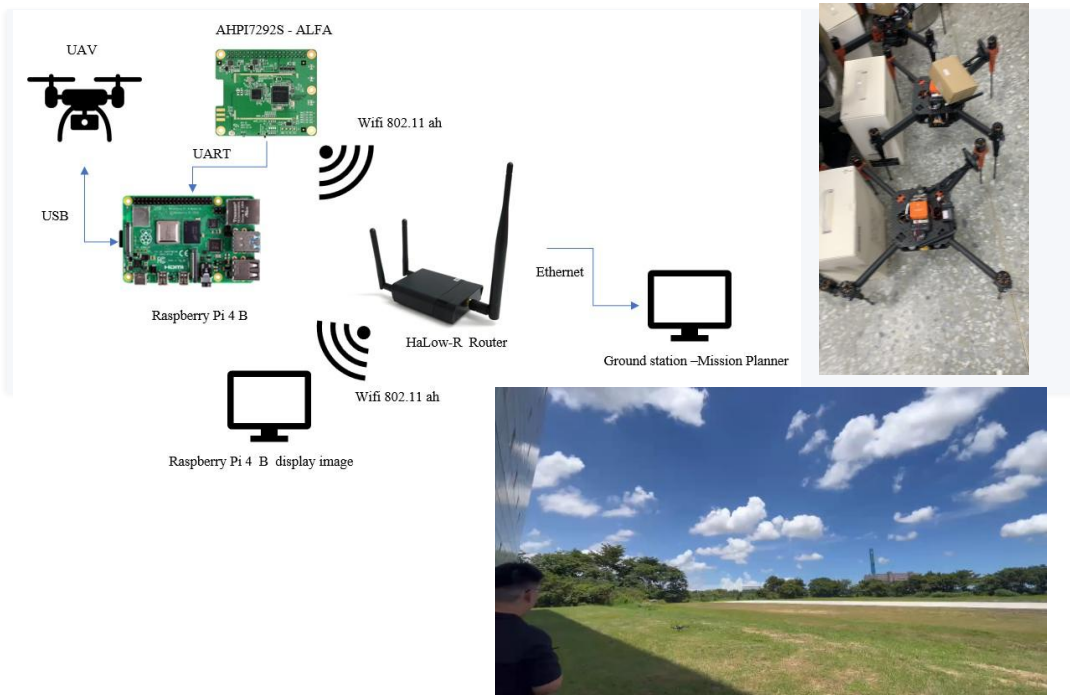
60 GHz Radar Level Sensor

Role: Water-Level Monitoring
Measures drainage or wastewater level for compliance records.

HaLow Drone Telemetry & Video Link Solution

Deployment Overview

國立虎尾科技大學 飛機工程系 王萱鐳 副教授



Products

HaLow-R

Wi-Fi HaLow + 2.4 GHz Wi-Fi

Role: Ground Station Gateway
Bridges the drone HaLow link to Mission Planner or a monitoring PC.



AHPI7292

Sub-GHz Wi-Fi HaLow Module

Role: Drone Payload Link
Provides long-range IP connectivity for telemetry, control, and low-bitrate video.



HaLow Traffic Light Control & Monitoring Solution

Deployment Overview



Products



Tube-AH

Outdoor Wi-Fi HaLow CPE

Role: Mesh / Relay Node
Builds a long-range wireless mesh for traffic-signal control, status monitoring, and remote maintenance.

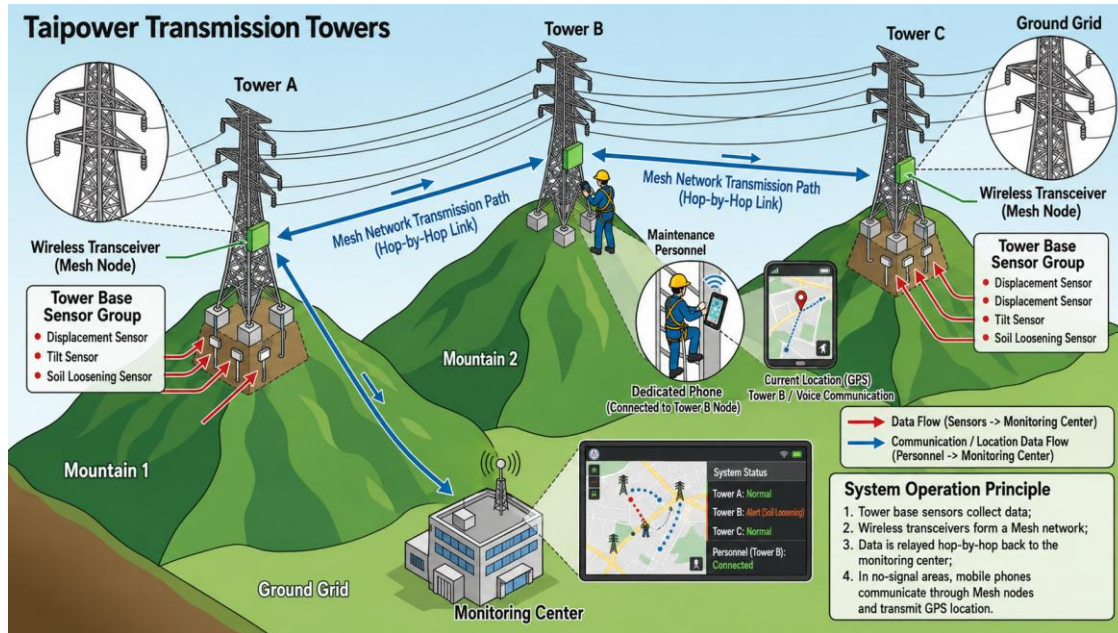
HaLow Electronic Tower Monitoring & Maintenance Solution

Deployment Overview



Products

Taipower Transmission Towers



Solo-AHM

Outdoor Wi-Fi HaLow Bridge

Role: Mesh / Relay Node
Builds a mesh network for sensor monitoring and maintenance communication.

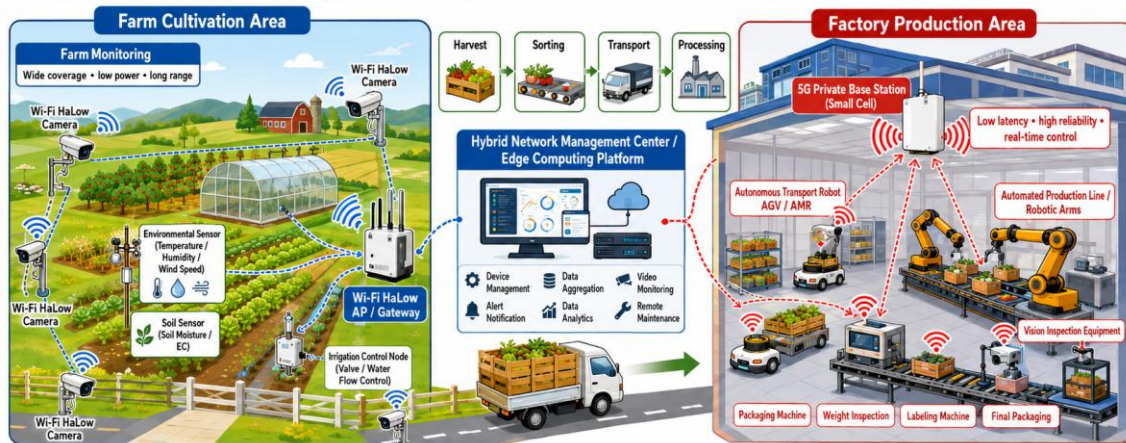
HaLow with Private 5G hybrid Smart Agriculture Solution

Deployment Overview



Products

Hybrid Smart Agriculture Application Diagram: 5G Private Network Base Station and Wi-Fi HaLow



Wi-Fi HaLow Connection
(Wide coverage, low power, long range)

5G Private Network Connection
(Low latency, high reliability, real-time control)



Private 5G Base Station

Private 5G Factory Network

Role: In-Factory Production Network
Enables ultra-low-latency connectivity for AGV transport and automated production lines inside the processing plant.



Solo-AHM-5G

Wi-Fi HaLow + Private 5G

Role: Agricultural Data Gateway
Aggregates soil, weather, and crop sensor data for the farm management platform.



HaLow-Cam

Sub-GHz Wi-Fi HaLow Camera

Role: Crop Monitoring
Captures field images for crop growth tracking.

THANK YOU

ALFA Product Application



AsiaRF Co., Ltd. | www.asiarf.com | +886 2 2940 7880

sales@asiarf.com | Last Updated: 08/07/2025

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Agenda

- **Company Brief**
- **IoT ROI**
- **AI Foundation Data collection**
- **AsiaRF Goal**
- **HaLow Products Introduction**
- **Biggest needs for HaLow Commuication**

From Wireless to AIoT : AsiaRF's Journey of Innovation

Paul Lai, the founder of AsiaRF, foresaw the networking potential early in the internet's inception. With steadfast belief and passion, he navigated intense competition and evolving wireless technologies to establish "AsiaRF". Unconventional decisions, such as investing in R&D and certification services, ensured high quality and competitiveness.

Over **29 years**, AsiaRF expanded its focus to include Wi-Fi HaLow **achieving the world's first certification in June 2023. The launch of Wi-Fi HaLow AIoT Solution Kits in September 2023, Comprehensive Wi-Fi 7 Ecosystem Featuring High-Speed Modules, Advanced Platforms, and Innovative Converter Cards for AI PC and Server Integration in July 2025**, comprising indoor AIoT Gateways, portables, outdoor routers, and relays, marked a significant milestone.

AsiaRF aims to lead in technological advancement, contributing value to the AIoT industry's future.



Pioneering the Future with Advanced Wi-Fi Technology



Wi-Fi HaLow First-Certified Gateway: ARFHL-WHM

The World's FIRST Wi-Fi HaLow CERTIFIED End-Product.



Wi-Fi 7 BE5000 Module AW7991-AE2

MTK SoC's sole designated Taiwanese manufacturer, as an exclusive and trusted partner.



Wi-Fi HaLow Mesh

The World's First Release of Wi-Fi HaLow MESH

Advantages of Wi-Fi HaLow Solution



Long range : extends **1** Km



Sub-1GHz spectrum operation



Greater Penetration
: **10** times greater



Extended Range : **100** times coverage



Power-Saving Mode



More Connections :

more than **8,191** stable connections

HaLow Internet vs HaLow IoT

Year	IoT (\$B)	Internet (\$B)	Total (\$B)
2024	0.15	0.02	0.17
2025	0.27	0.06	0.33
2026	0.48	0.18	0.66
2027	0.80	0.45	1.25
2028	1.25	0.95	2.20
2029	1.85	1.80	3.65
2030	2.60	3.20	5.80

https://iot-analytics.com/wifi-iot-chipset-market/?utm_source=chatgpt.com
<https://omdia.tech.informa.com/pr/2025/sep/wifi-halow-market-shows-promise-with-steady-growth-projected-through-2029>

AI Foundation?

- **Extend your Reach!**
- **More Data collecting**
- **More Information collecting**
- **More Videos collecting**

Our Goal

*Extend Your
Reach.*

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“

AsiaRF's Goal is "**Extend Your Reach**" —

Aims to convey that the core mission of AsiaRF is centered "**around extending your connections**" while simultaneously expanding your business influence !

”

Wi-Fi HaLow Solution

Future Ready AIoT Solutions for Advanced Connectivity.
www.asiarf.com

MESH Outdoor Gateway
ARFHL-OD-MS01

Sub-GHz | HaLow
Low-power, Long-range

Raspberry Pi HAT Module
MM610X-H06

Industrial Remote Control Kit
AWH575-MF1

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Wi-Fi HaLow Starter Kit
DP-575

MESH Portable Gateway
ARFHL-UM

MESH Gateway
ARFHL-AP



Body Worn Camera

Key Features

- **Cloud & Edge VMS Support**
 - Live surveillance, backup, record & playback
 - SOS alarm, PTT talk/broadcast, GPS tracking
 - **Cluster-server** architecture compatible
- **Seamless Integration**
 - Built-in ONVIF & RTSP for existing VMS systems
- **High-Quality Camera**

164° wide-angle lens with low-light & IR modes

- 2" built-in monitor
- IP67 waterproof, rugged design



● **WiB-B01**
4G LTE, Wi-Fi

● **WiB-B02**
Wi-Fi only

errors or mistakes that may

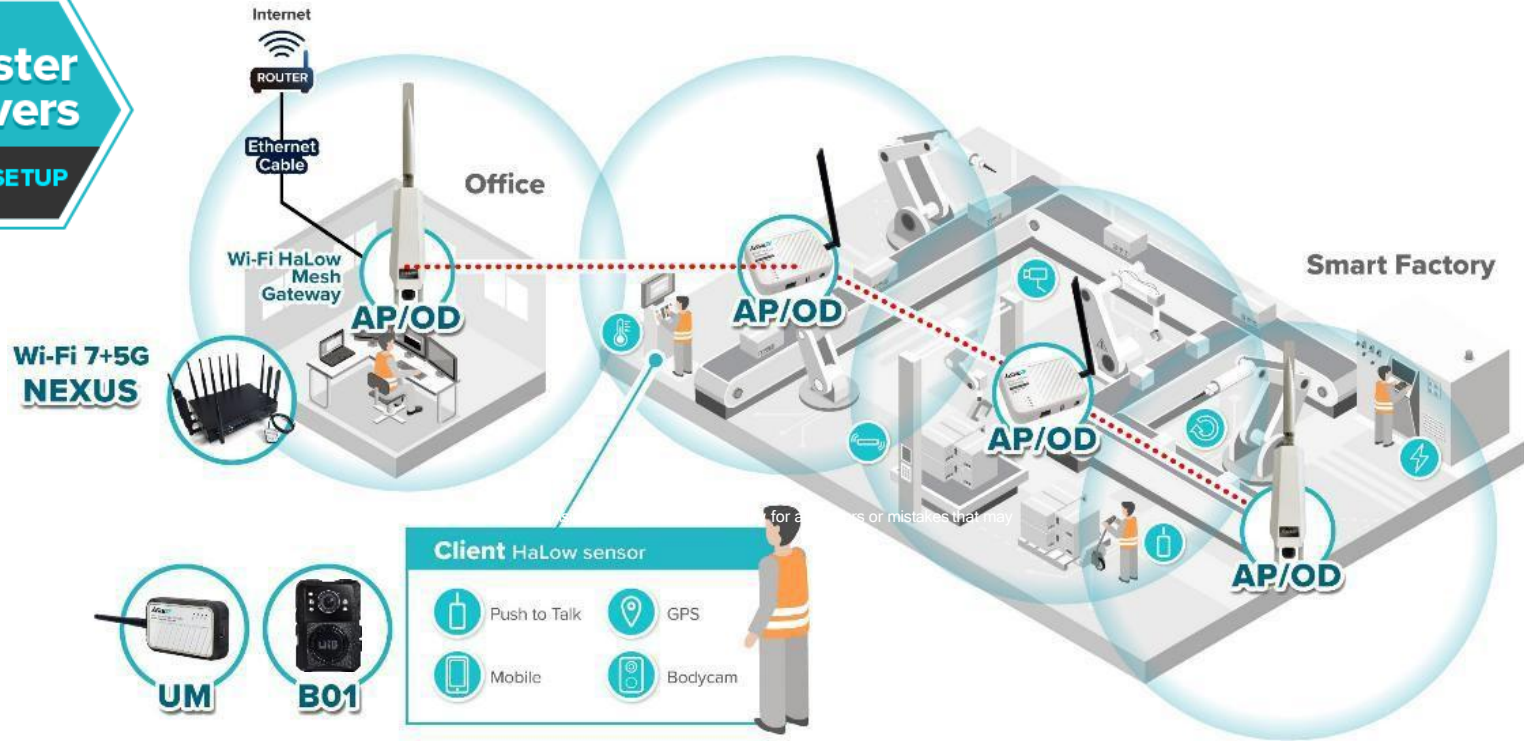
Challenging Area



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Cluster Servers
FREE SETUP



Computex Booth Information



Taipei Nangang
Exhibition Center,
Hall 1
Booth : **K0013**




THANK YOU!

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Askey Wi-Fi HaLow Product Introduction

2026 May



Wi-Fi HaLow Product



Module

- Newracom NRC7394
- AP/STA, 802.11s mesh
- JP/US version
- LGA form factor



Router

- Wireless : Wi-Fi/BT/11ah
- Wired : 1GE WAN/LAN
- AP/STA, 802.11s mesh
- Support LTE dongle
- IP55



Gateway

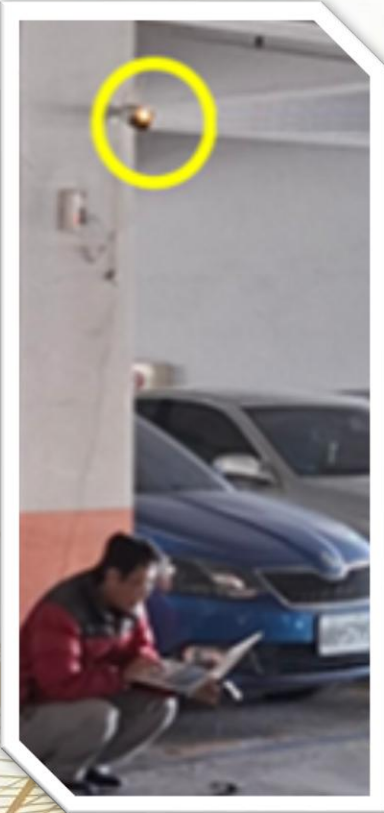
- Wireless : 11ah
- Wired : 100MB
- RS485 for sensor
- USB type C for Power
- IP65



Camera

- Wireless : Wi-Fi/11ah
- Wired : 100MB
- 2M pixels
- IR illuminator/spot light LED
- SD card slot
- IP66

Current POC Status



Surveillance on the roof, roadside, parking lot

Use Case Concept



Use Case Concept



Smart Pole



Wi-Fi HaLow
Slave <=> Master



Wi-Fi HaLow Module

簡報人 / Present by: AzureWave Nick

日期 / Date: 2026 Jun.

A Worldwide Leading Wireless Module Provider

AzureWave



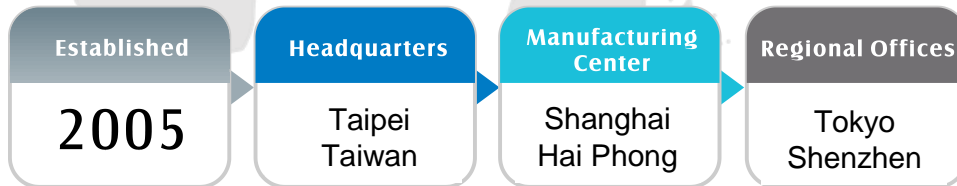
100+

Multiple products and solutions for choice



500+

Tier 1 accounts +, Top 5 distributors +, Top 5 EMS and worldwide customers



TWSE code 3694

Providing series of wireless connectivity solutions



Wi-Fi



Bluetooth



Zigbee



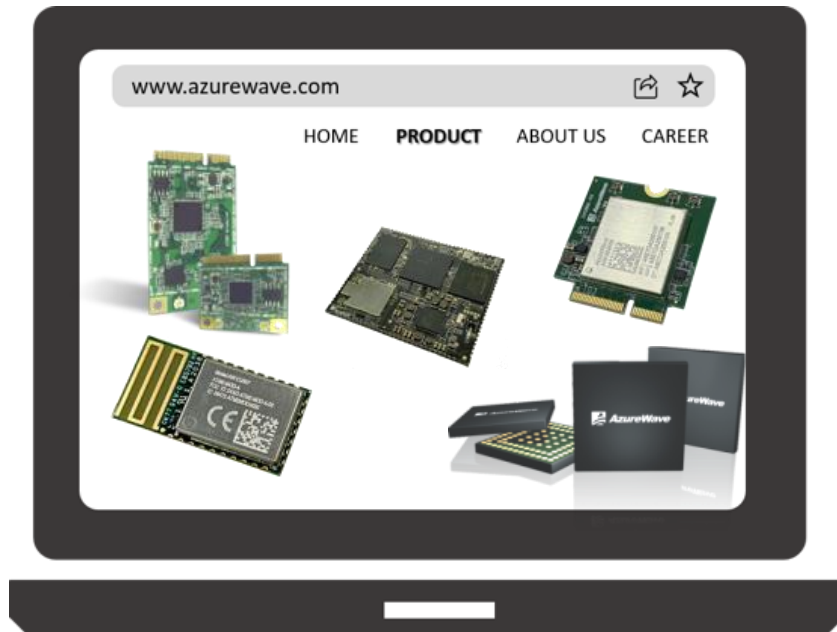
Wi-Fi HaLow



Thread



UWB

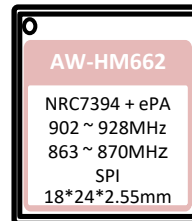
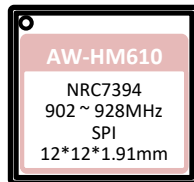
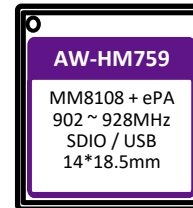
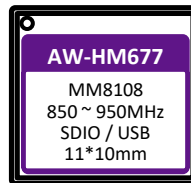
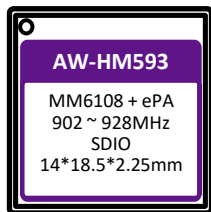
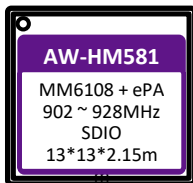


Wi-Fi HaLow (11ah) Modules

Market-Ready

Q4'26

LGA Module



Wi-Fi HaLow (802.11ah) Modules

Model	AW-HM610	AW-HM622	AW-HM593	AW-HM677	AW-HM759
module photo					
Main Chip	NRC7394 iPA	NRC7394 ePA	MM6108IQ	MM8108 iPA	MM8108 ePA
module type	LGA module	LGA module	Stamp module	LGA module	LGA module
interface	SPI	SPI	SDIO	SDIO / USB	SDIO / USB
dimension	12x12x2.2mm	18x24x2.55mm	14x18.5x2.5mm	11x10x2.02mm	14x18.5x2.5mm
Channel Bandwidth	1/2/4 MHz	1/2/4 MHz	1/2/4/8 MHz	1/2/4/8 MHz	1/2/4/8 MHz
operating temperature	-40°C ~85°C	-40°C ~85°C	-40°C ~85°C	-40°C ~85°C	-40°C ~85°C
Certification	FCC / IC	FCC / IC planning	FCC / IC	FCC / IC	FCC / IC
	JP TELEC			JP TELEC	
				CE	

Successful Product Application

Ethernet to Wi-Fi HaLow



Solar Surveillance



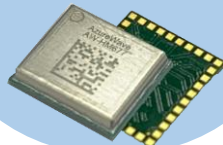
Door Bell



IoT Gateway



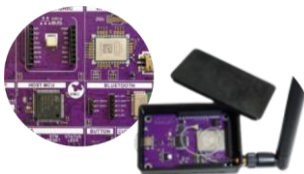
AzureWave
Wi-Fi HaLow



IP CAM
Surveillance



IoT Platform



USB dongle



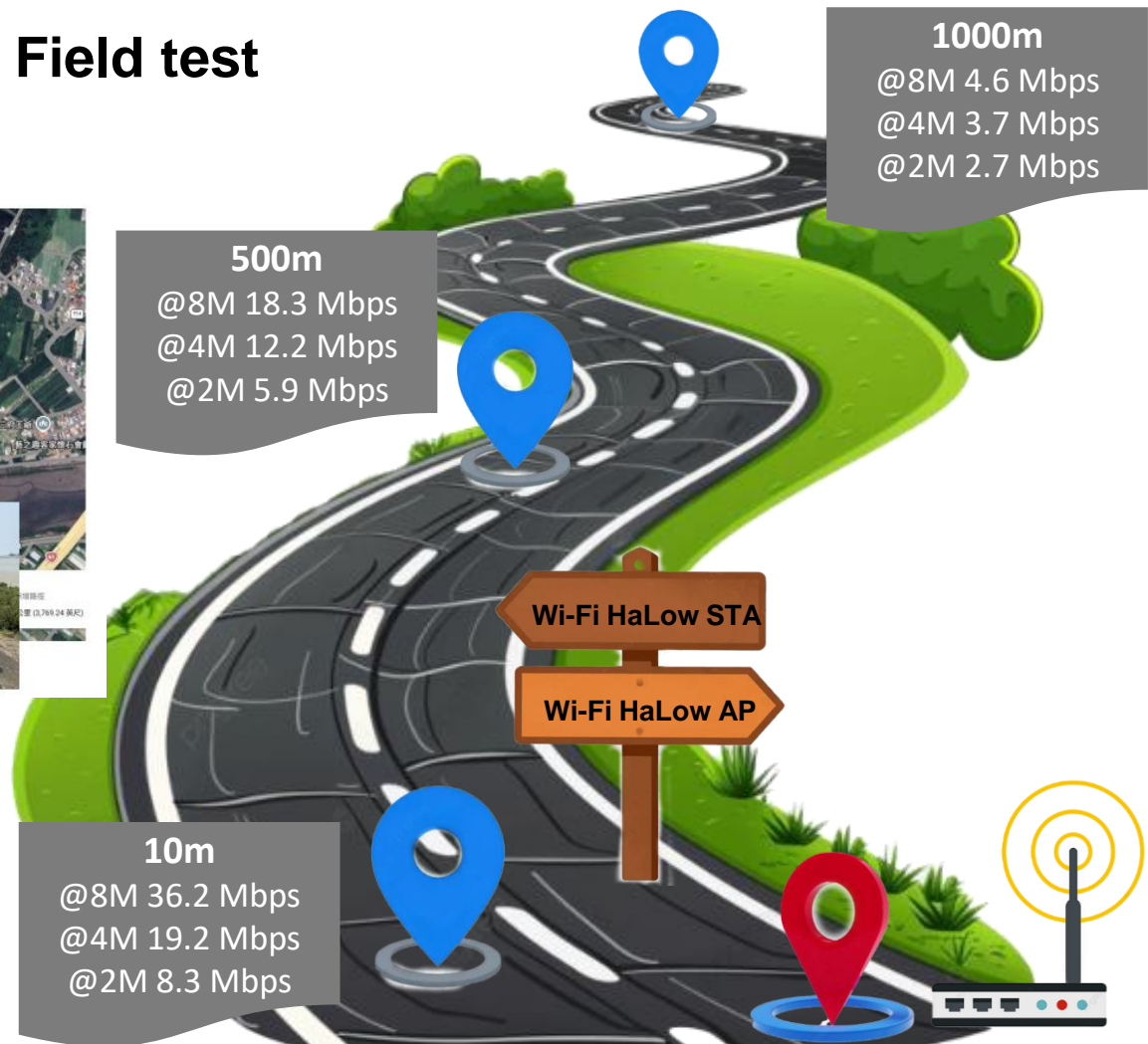
Wi-Fi HaLow 850MHz Field test



500m
@8M 18.3 Mbps
@4M 12.2 Mbps
@2M 5.9 Mbps

1000m
@8M 4.6 Mbps
@4M 3.7 Mbps
@2M 2.7 Mbps

10m
@8M 36.2 Mbps
@4M 19.2 Mbps
@2M 8.3 Mbps



THANK YOU



AzureWave



Building the Wi-Fi HaLow Ecosystem

Long range. Low power. One ecosystem

Lanqly Chou, Lead Architect

Edgecore Wi-Fi / Accton Group

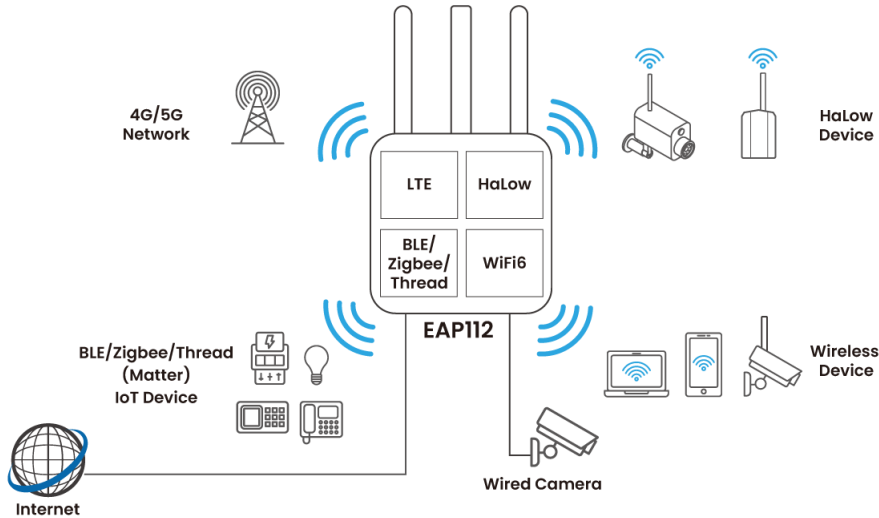
Jun 3, 2026

One Ecosystem, Built to Work Together

- **EAP112 — Wi-Fi 6 IoT Gateway**
 - The hub of the HaLow network. Wi-Fi 6 2x2 up to 3 Gbps, Wi-Fi HaLow (802.11ah) for long-range IoT, plus 4G LTE Cat 6 backup uplink. Also supports BLE, Zigbee, and Thread. IP65 rated.
- **Wi-Fi HaLow Dongle**
 - Adds Wi-Fi HaLow to any device over USB 2.0 Type C. Works in AP, Station, or Mesh mode.
- **Wi-Fi HaLow Camera**
 - Long-range wireless surveillance over HaLow. 150° wide-angle lens, 20m IR distance, SONY CMOS sensor, IP66 for outdoor use.
- **Portable IoT Gateway (Pi7a)**
 - Battery-operated gateway with Wi-Fi HaLow, Wi-Fi 2.4 GHz, and BLE/Zigbee. Connectivity that goes where you need it.



Cloud to Endpoint, Managed as One



- **Cloud Layer — ecCLOUD**

- Unified, centralized management across the whole deployment.

- **Gateway Layer — EAP112**

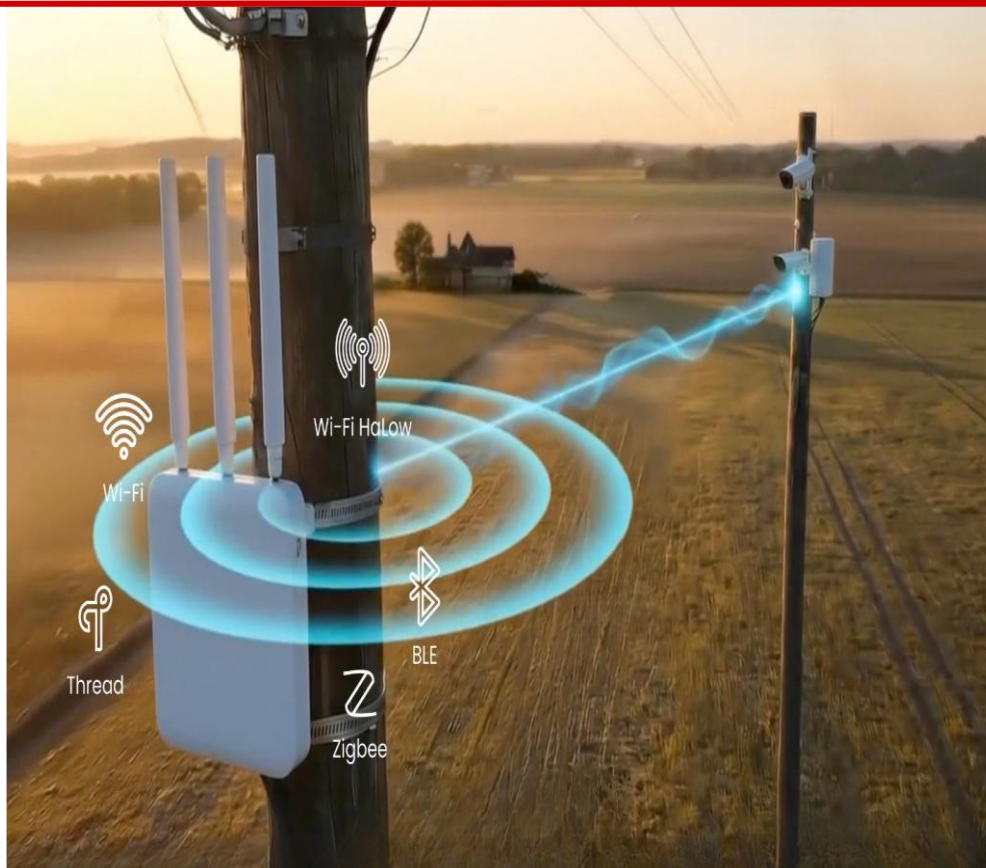
- Acts as the Wi-Fi HaLow access point and uplink, bridging endpoints to the cloud over Ethernet or LTE.

- **Endpoint Layer — HaLow Devices**

- Wi-Fi HaLow Dongle, Camera, Portable IoT Gateway, and sensors connecting over long range and low power.

Every layer managed from one platform, from the cloud down to the smallest sensor.

What Will You Build on HaLow?



The pieces are ready.

The opportunity is yours.

Whether it is long-range surveillance, smart metering, or sensor networks across a campus, HaLow opens up use cases that traditional Wi-Fi cannot reach.

We provide the foundation.

You build the service.

Let's talk about your deployment





www.edge-core.com

THANK
YOU