國家品牌玉山獎
THE NATIONAL BRAND YUSHAN AWARD
2025

WIRELESS SOLUTION
BROCHURE

Z-COM
Smart and Fast Network Communication

ZCOM

LINE

Z-COM Wi-Fi Products

5G NR

Coverage

Coverage

AG260 Railway Gateway

2.4GHz / 5GHz Concurrent
EN 50121 Railway applications
Electromagnetic compatibility
EN 50155
M12 X-Coded

AS710 Indoor AP

2.4 / 5 / 6 GHz Concurrent
6 built-in antennas with advanced
RF optimization
Up to 9.3Gbps

国家品牌玉山奖
2025

SP250 Outdoor AP

2.4GHz / 5GHz Concurrent
Omni-directional antennas
for coverage

Coverage

PtP/PtMP

AS240 Entry-level Indoor AP

2.4GHz / 5GHz Concurrent
Omni-directional antennas for
coverage

SP230-S5 Outdoor AP

2.4GHz / 5GHz Concurrent
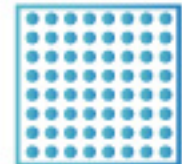2.4GHz Omni antennas 5GHz
Directional antennas 6km 100Mbps

TAIWAN
EXCELLENCE
2023

FC

RoHS
COMPLIANT

CERTIFIED
ISO 9001
GUARANTEE

CERTIFIED
ISO 14001
GUARANTEE

REACH

CERTIFIED
ISO 27001
GUARANTEE

CERTIFIED
CNS 27001
GUARANTEE

Wi-Fi 7 Features Hightlight

320
MHz

46
Gbps

4096
QAM

16x16
MU-MIMO

4K

**Multi-Link
Operation**

**Multi
Resource Uint**

**Preamble
Puncturing**

ZCOM

Since 1995, Z-COM pioneers wireless communication R&D, boasting nearly 30 years of expertise. We've successfully led global Wi-Fi Offload and smart city projects, connecting 500+ million users with millions of carrier-grade Wi-Fi stations. Collaborating with telecom giants in China and India, we actively embrace IoT-era network applications.
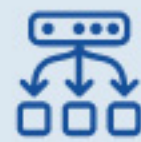
As a top-tier provider in wireless and hybrid networking, Z-COM integrates 5G, Wi-Fi, and AIoT technologies. Our strategic deployment includes dedicated networks and edge computing for AIoT, shaping the next-gen mobile broadband solutions.

Cutting-Edge Technologies

Seamless roaming

Auto channel

Bandwidth control

Auto channel (5GHz priorization)

Load balance

Auto power

Key Features

SDN

Centralized

Real-time monitoring

Remote Troubleshooting

N+1 Backup

Heterogeneous Network Integration

WLC
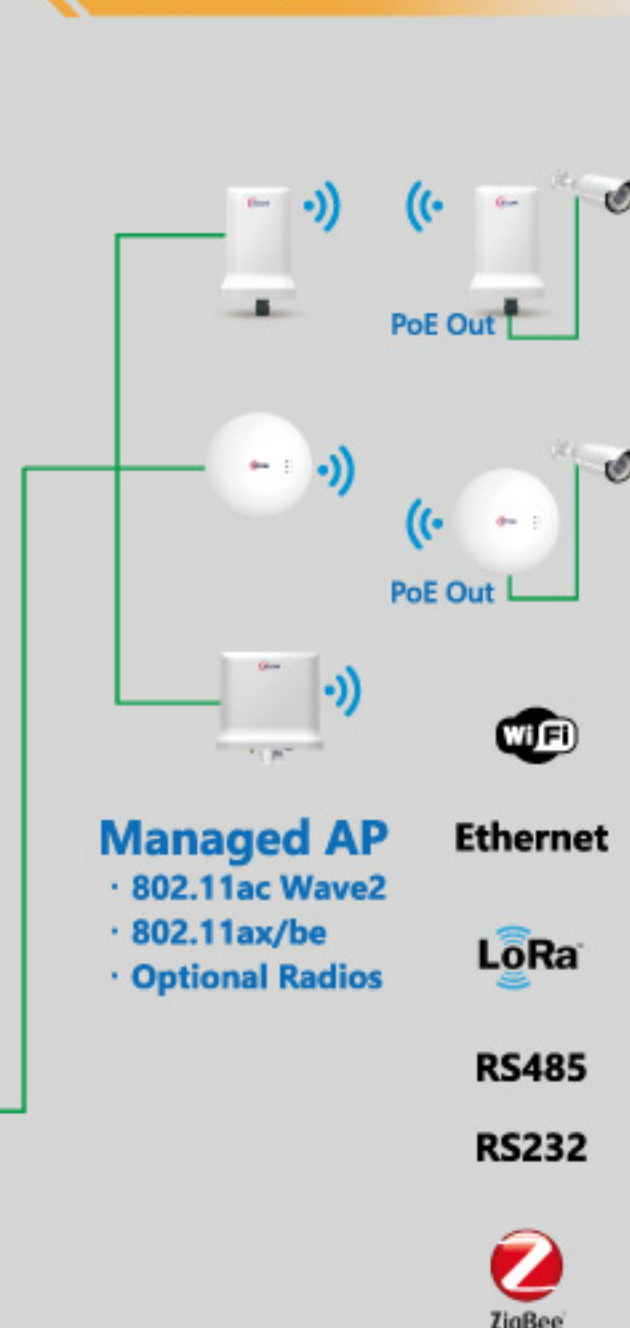
Deploy a manageable, Intelligent, Easy Network

zMEC

Edge Computing Platform

Core

Portal Server

AAA Server

Radius

NMS

SNMP

Database — RESTful Server

NAS

Edge

WLC | ZOAM | 3rd-party APPs... | GEN-AI Firewall

NFV / Docker Container

SDN / OVS OpenFlow

Linux OS

IPC

Kubernetes(K8S)

Access

PoE Out

PoE Out

Managed AP
· 802.11ac Wave2
· 802.11ax/be
· Optional Radios

Wi-Fi

Ethernet

LoRa

RS485

RS232

ZigBee
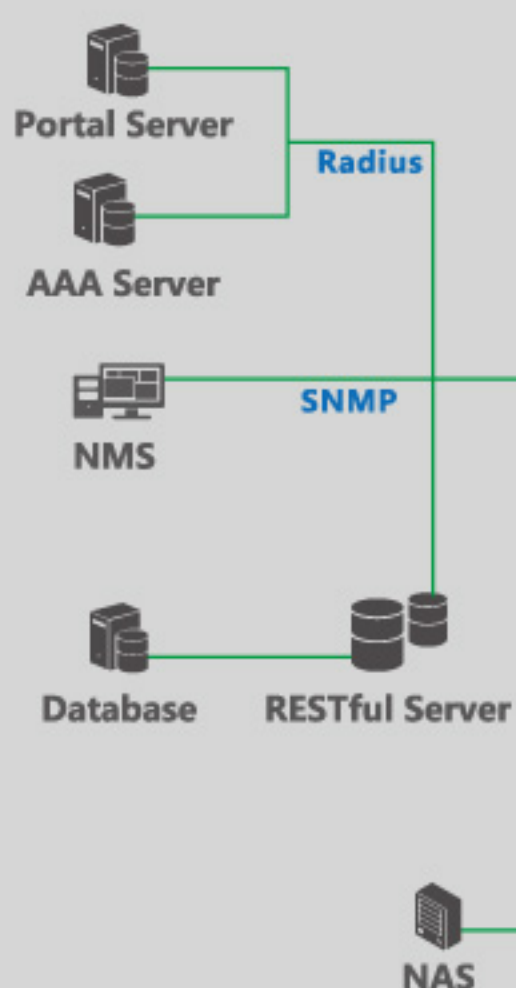
Smart City

Smart Transportation

Smart Energy

Smart Healthcare

Smart Factory

Smart Construction

Network Slicing | **URLLC** | **Superior Scalability** | **Load Balance**

VE-PG4 Gateway

zMEC

Heterogeneous Network
Communication Platform

Control Center

SP250 series Outdoor AP

IP503H Lite LTE

walkie-talkie

AG260 Gateway

zMEC

Heterogeneous Network
Communication Platform

IP110H Wi-Fi

walkie-talkie

AS710 Indoor AP

Wi-Fi

Lte 5G Wi-Fi

Wi-Fi

Intersection

SP250 series AP+IP-CAM

In LRT

zMEC

monitor
the pantograph

monitor the
car interior

monitor
the track
& trackside

NAS+NVR

PoE Switch

Gateway
AG260

Station

AS710 AP+IP-CAM
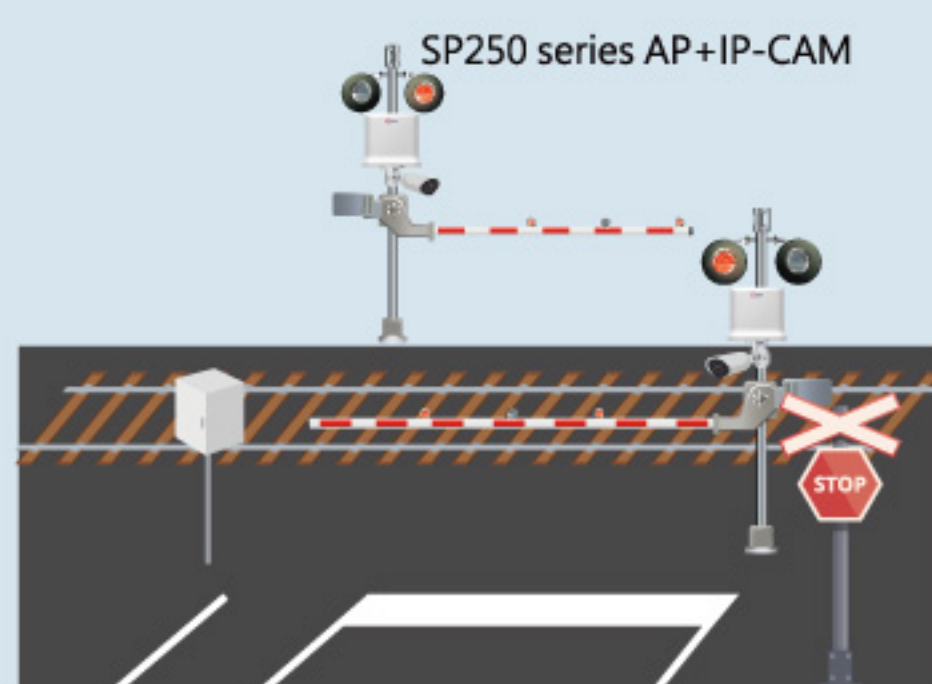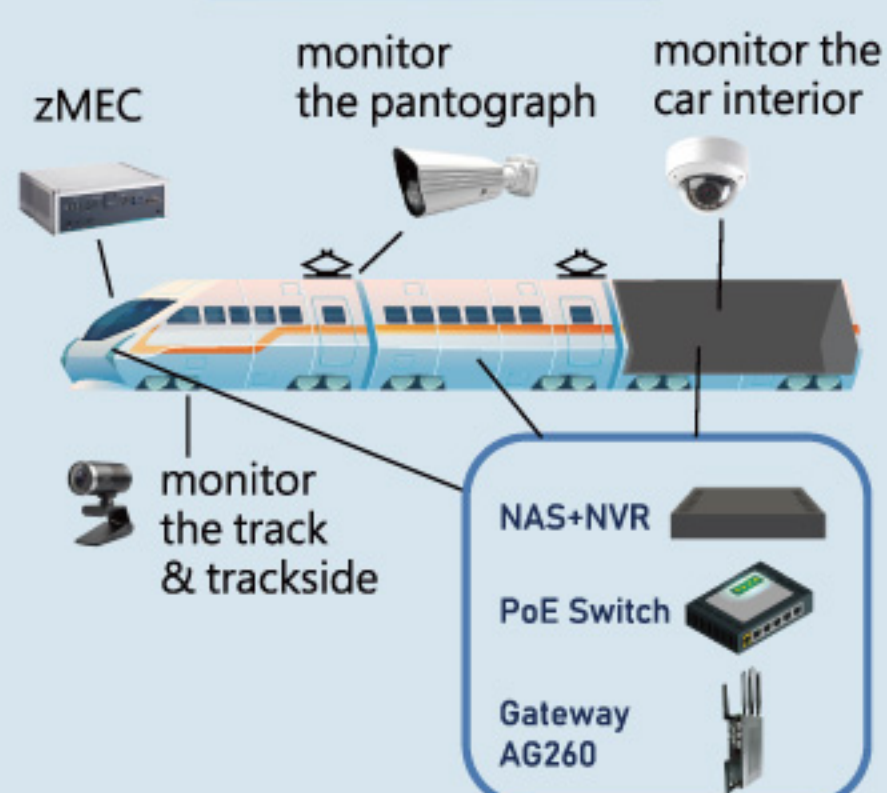
EdgeLink-X

AI-Driven Heterogeneous Network Edge Integration Platform

Low Latency · Stability · High Efficiency · Secure Protection

As digital transformation accelerates in smart transportation and railway systems, the stability and resilience of communication networks have become critical to operational safety. When field sensors, surveillance devices, and frontline personnel are simultaneously online, any communication delay or signal interruption can directly impact decision-making and emergency response efficiency.

Leveraging years of experience in wireless networking and edge computing, Z-COM introduces EdgeLink-X—an AI-driven heterogeneous network edge-integration solution designed specifically for railway and intelligent transportation environments, seamlessly integrating multiple communication technologies.

The design philosophy of EdgeLink-X centers on "Edge Intelligence × Heterogeneous Integration × Resilient Connectivity." The system architecture integrates multi-layer communication nodes with an edge computing platform, forming a self-adaptive, real-time responsive communication ecosystem that spans from frontline voice communication devices and wireless backhaul links to the edge AI platform.

Within the overall architecture, the IP503H and IP110H serve as on-site IP Radio terminals, enabling real-time voice communication and group coordination among frontline personnel. These devices connect to the network through Z-COM's wireless access equipment—such as the AG260 Wi-Fi 6 / 5G NR Gateway or the AS710 Wi-Fi 7 Tri-Band AP—allowing them to integrate into a broader communication environment.

The backbone layer is supported by the SP250 Series PTP transmission devices, which provide precise time synchronization and stable data transport. At the core computing layer, the zMEC edge computing platform performs real-time AI analytics and data distribution, ensuring low-latency, highly reliable service operations.

Slope Monitoring

Pantograph Inspection

AI Object Detection

ZCOM 智捷科技

Established in
Hsinchu Science Park
2013 Listed on Taiwan
OTC Exchange (TWO)
Wi-Fi Alliance
Membership

Products and markets
Telecom carriers
Industrial grade
Wi-Fi Product
Japan. Europe
Asia (China/India)

Radio Frequency (RF)
Software development
for wireless bandwidth
integration
One-step service from
design to
manufacturing
Own-brand

Wi-Fi equipment supplier
for big events
2008 Beijing Olympics
2010 Shanghai World Expo
2012 Nanjing Youth
Olympics
2019 India Mobile Congress
2023 Digital Transformation
Model Award
2023 Sport Enterprise
Certification

Win Award for
Most Promising Carrier
Grade Wi-Fi Company by
DigiAnalysis India

SP230-S5 Won the 31st
Taiwan Excellence
Taiwan Outstanding SME
2022-2023
SP250-S5 won the National
Brand Yushan Award

Customized RF high power /
Industrial/ Small form factor design
EMC compatibility & Reliability Test
RF related patents Firmware
development Cross platform

**Capability
R & D**

Production
Design for
manufacturability
and with its own
production lines

**With
various
certifications**

ISO9001、ISO14001
ISO27001、CNS27001、REACH、RoHS

**Quality
control with
strict standards**

Quality of all manufacturing
processes from design,
manufacturing to service is
reviewed and refined

ISO 27001 · CERTIFIED · GUARANTEE

ISO 9001 · CERTIFIED · GUARANTEE

ISO 14001 · CERTIFIED · GUARANTEE

CNS 27001 · CERTIFIED · GUARANTEE

RoHS COMPLIANT

REACH

Cooperate with Z-COM, planning your projects

Z-COM with software & hardware R&D experiences nearly 30 years in Wi-Fi industry is committed to fulfill its social and environmental responsibilities and expect our suppliers to share this commitment.

LINE

+886-3-5777364

z-com@zcom.com.tw

www.zcom.com.tw

5F, No.8, Hsin-Ann Road,
Hsinchu Science Park, Hsinchu