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

WIRELESS SOLUTION

BROCHURE

ZCOM

Z-COM
Smart and Fast Network Communication

LINE

z-com@zcom.com.tw

www.zcom.com.tw

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

Z-COM Wi-Fi Products

Coverage

BE750-A Wi-Fi 7 module

2x2 2.4 / 5 / 6 GHz Tri-band
Up to 5,800 Mbps
USB 3.2 Type-A Interface
Realtek Wi-Fi 7 Chipset

Coverage

AS710 Indoor AP

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

國家品牌玉山獎
2025

Coverage

SP250 Outdoor AP

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

Coverage

AS240 Entry-level Indoor AP

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

PtP/PtMP

SP230-S5 Outdoor AP

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

TAIWAN
EXCELLENCE
2023

FC

RoHS
COMPLIANT

ISO 9001

ISO 14001

REACH

ISO 27001

CNS 27001

Wi-Fi 7 Features Hightlight

320 MHz

46 Gbps

4096 QAM

16x16 MU-MIMO

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.

AS710

為高密度場域打造的 Wi-Fi 7 室內無線存取點

Future-Ready Wi-Fi 7 for High-Density Environments
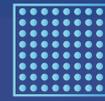Tri-Band · 6GHz · 320MHz · MLO · 10GbE

Wi-Fi 7
(802.11be)

Tri-Band
Concurrent

6GHz
Spectrum

320MHz
Bandwidth

4096
QAM

Multi-Link Operation

Tri-Band Wireless Performance

Wi-Fi 7 AP

6 GHz	5,765Mbps
5 GHz	2,882Mbps
2.4 GHz	688Mbps

STA

IoT-integrated Smart Buildings

Office

Campus

Healthcare

Exhibition Hall

Wired & Power

10GbE Ethernet
10G / 5G / 2.5G / 1G

PoE 802.3at
25.5W

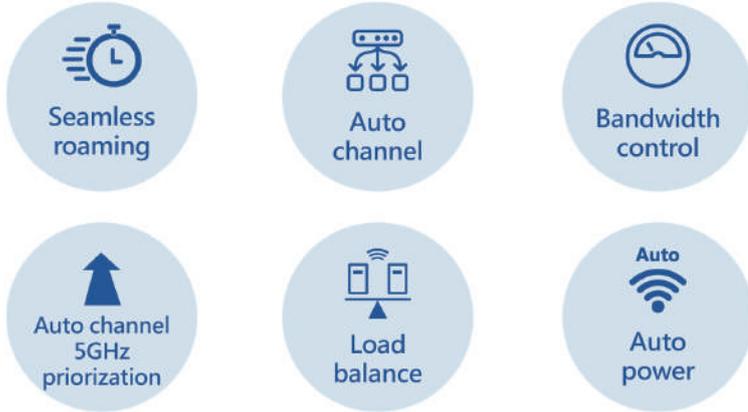**DC Power**
12V / 3A

Security & Management

- WPA3 / 802.1X
- Rogue AP Detection
- Web UI / SSH / CLI

Physical Design

- Rogue AP Detection
- Internal antennas x 6
- Ceiling / Wall Mount
- Size 200 x 200 x 37.7 mm
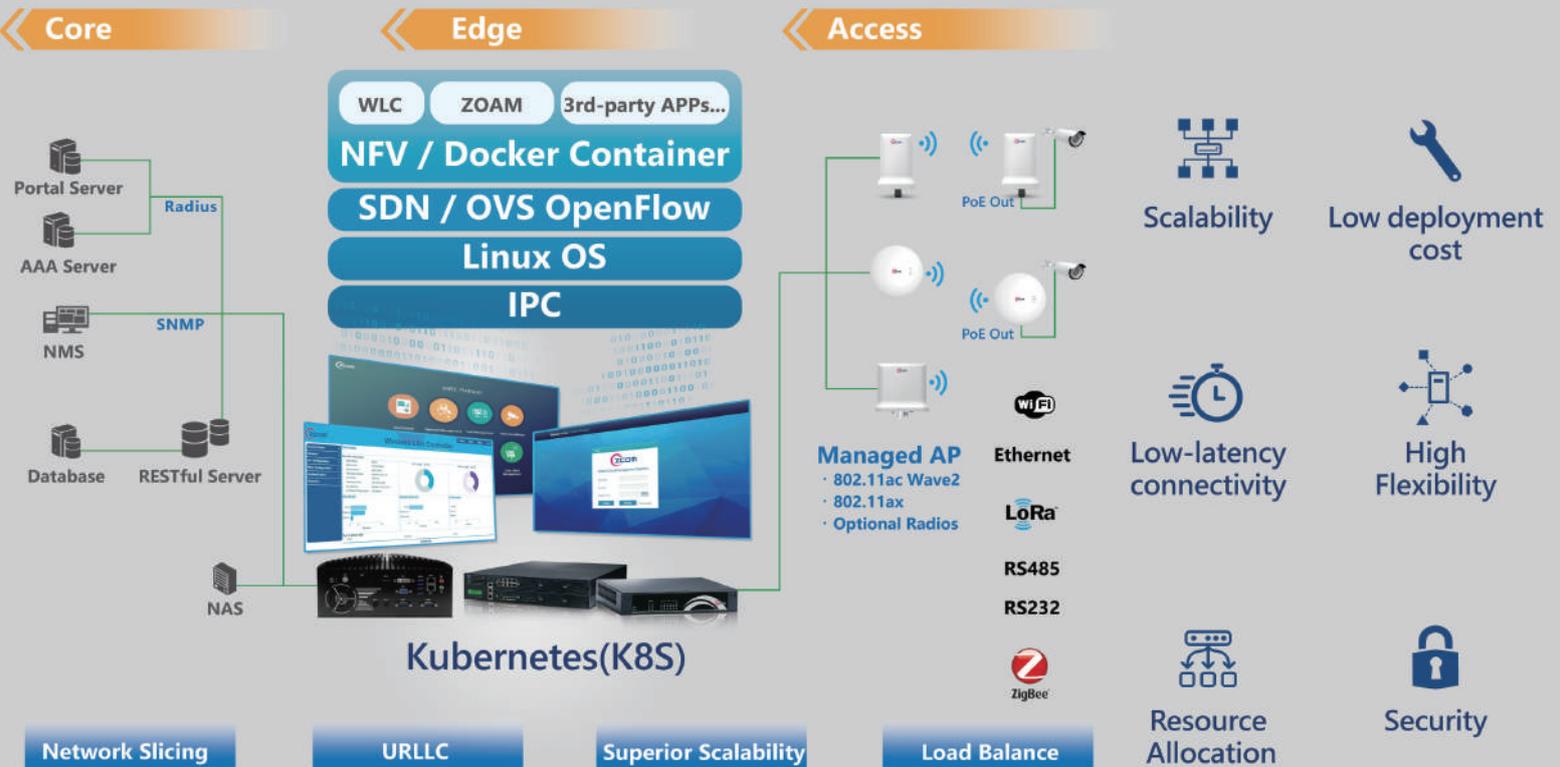
Cutting-Edge Technologies

Seamless roaming

Auto channel

Bandwidth control

Auto channel 5GHz priorization

Load balance

Auto
Auto power

Key Features

SDN

Centralized management

Real-time monitoring

Remote Troubleshooting

1+1 Backup

Central forwarding

WLC

Deploy a manageable, Intelligent, Easy Network

Wireless LAN Controller

zMEC

Edge Computing Platform

Core

Edge

Access

Portal Server

Radius

AAA Server

SNMP

NMS

Database   RESTful Server

NAS

WLC	ZOAM	3rd-party APPs...

NFV / Docker Container

SDN / OVS OpenFlow

Linux OS

IPC

Kubernetes(K8S)

PoE Out

PoE Out

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

WiFi

Ethernet

LoRa

RS485

RS232

ZigBee

Scalability

Low deployment cost

Low-latency connectivity

High Flexibility

Resource Allocation

Security

Network Slicing

URLLC

Superior Scalability

Load Balance
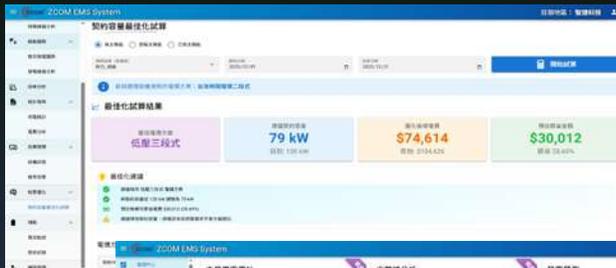
AIoT 全面智慧監控系統管理解決方案

AIoT UNIFIED SMART MONITORING & MANAGEMENT SOLUTIONS

融合邊緣運算與數據驅動洞察實現從感知到決策的無縫連接
打造安全、極速、客製化的智慧化未來

在萬物互聯的時代，單一的監控已不足以應對複雜挑戰。我們的解決方案
超越傳統，將 AIoT 深度整合至基礎設施，提供不僅是「看見」，
更是「預知」與「行動」的能力，協助企業實現數位轉型與淨零目標。

超約預警
契約容量即時監控
避免超約罰款
Overage Alert

異常告警
設備異常提前通知
減少停機損失
Anomaly Alert

技術支撐
Powered by zMEC 邊緣
運算・AIoT・工業級資安
Technology

契約容量最佳化試算
試算最省契約組合
Optimal Contract
Capacity Calculator

可視化報表
能耗一目瞭然
ESG報表輕鬆產出
Visual Reports

CTA 行動呼籲
免費場域診斷
掃碼預約
Call to Action

ZCOM

最佳化節電顧問
量身打造最佳組合

方案	最佳化 契約容量	最佳化 電費方案	最佳化 光儲方案	其他 用電方案
特色	避免超約罰款	電價優惠組合	太陽能 + 儲能	客製化 自由搭配

一鍵試算

找到最省錢的用電方案
系統立即提供 最佳組合方案 有效降低電費支出

選擇區域 / 時段

立即顯示

預估節省金額

ZCOM

基礎監測模組

數據透明化
快速掌握能耗現況

💡 **快速導入·立即見效**
數據透明化·節能升級

- ✅ **即時耗電監測** — 快速掌握用電狀況 為節能管理打下堅實基礎
- ✅ **環境溫溼度監測** — 節能平衡 最佳節能控管
- ✅ **空氣品質監測** — 追蹤環境品質 助力綠建築指標
- ✅ **契約容量預警** — 即時提醒超約 避免罰款
- ✅ **異常告警通知** — 即時通報異常 提升節能管理
- ✅ **自動化報表** — 一鍵生成能源 碳排報告
- ✅ **客製化監測** — 多元監測解決方案
- ✅ **設備相容擴充** — 支援多品牌智慧電表、感 測器與通訊協定

深度節能模組

深度節能
數據驅動找出改善空間

💡 **從「監測」進化到「診斷」**
有效降低電費·精準落實碳盤查

- ✅ **場域圖耗電總攬** — 客製化場域圖一目了然 即時顯示各 建築物EUI 及用電資訊、能源分佈
- ✅ **各設備能耗監測** — 即時捕捉異常耗能 改善 碳足跡
- ✅ **節能熱點分析** — 大數據比對 找出最佳節 能切入點
- ✅ **節費最佳化模組** — 契約容量×電價方案 打造最佳化組合
- ✅ **IPCAM 智慧監控** — 影像輔助分析 節能管控再升級
- ✅ **多區域管控** — 跨區域能耗分析 實現全面節能管理

多元模組選配
客製化能源管理方案

- 📅 訂閱服務
- ⚙️ 維運服務
- 🎧 能源顧問
- 🏠 多元租賃

ZCOM

獨家核心技術
客製化一站式多元物聯網平台
軟硬體整合升級能源管理

彈性模組化組合
自由選配彈性擴充
量身打造專屬智慧系統

碳排資料庫建置
跨場域全方位監測
精準數據驅動 制定高效節能策略

LINE

📞 +886-3-5777364

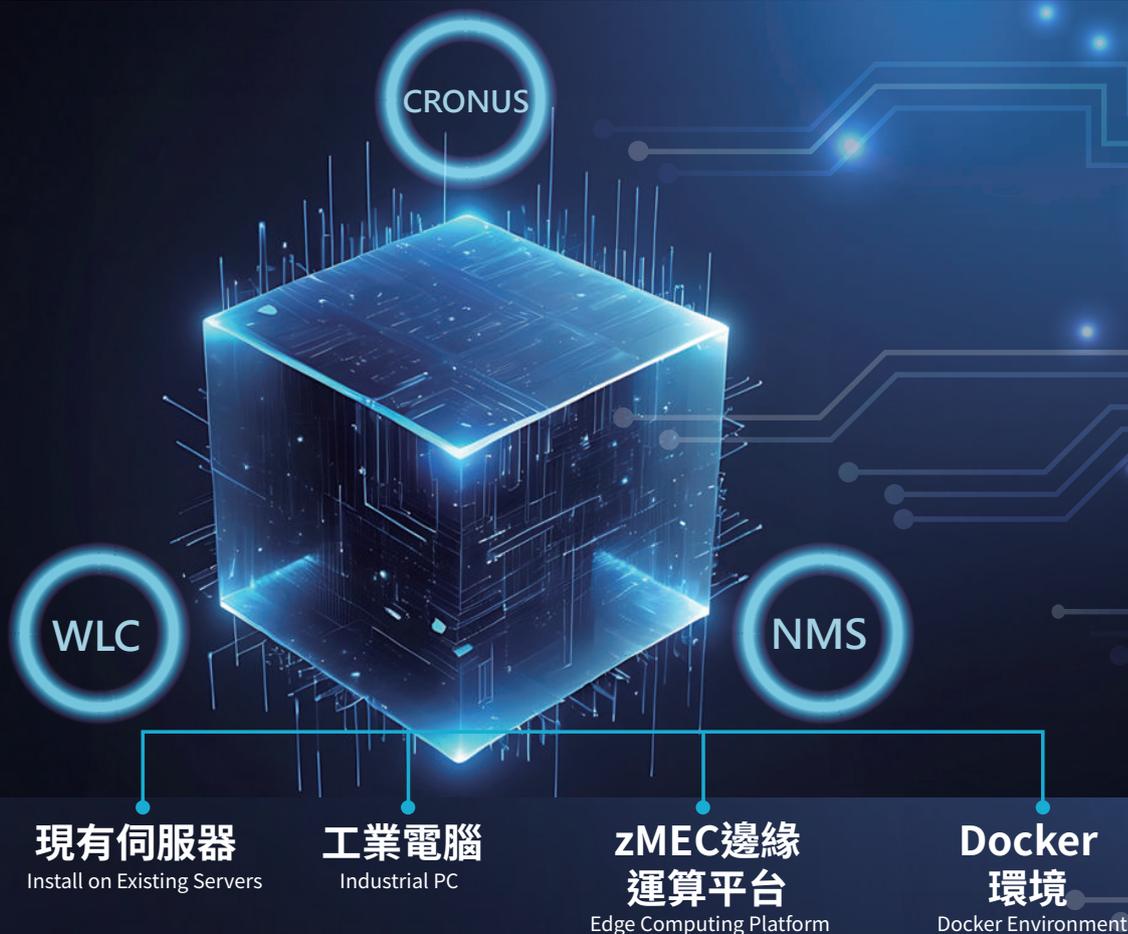🌐 www.zcom.com.tw

✉ sales@zcom.com.tw

📍 新竹市科學園區新安路8號5樓

"NEW" Platform

NEW 是 Network Extension with Wire and Wireless 的縮寫
顧名思義是一套同時整合有線與無線網路的智慧管理軟體套件
運行於我們自有的 zMEC 邊緣運算平台之上

NEW 統一管理介面：在Docker 容器化架構
AS710可與 NEW 整合，實現一站式監控

CRONUS

WLC

NMS

佈署企業級無線控制

可安裝於

現有伺服器
Install on Existing Servers

工業電腦
Industrial PC

**zMEC邊緣
運算平台**
Edge Computing Platform

**Docker
環境**
Docker Environment

部署靈活
Flexible Deployment

支援WiFi 7
Wi-Fi 7 Support

精準定位
Precise Positioning

視覺化圖表
Visual Charts

於同系統內操作
Operate within Single System

"NEW" Platform Overview
終結多主控台管理時代

過去在網路管理上，客戶往往需要同時操作多套管理介面——有線、無線、安全、能源各自獨立，管理複雜度極高

NEW 平台的核心理念

單一介面，整合所有網路資源：
· 有線基礎架構、無線 AP、網路控制、能源系統—全部整合在同一個畫面呈現。
· 管理人員從單一整合主控台即可管理，大幅降低管理複雜度。

支援高度彈性的品牌客製化：
· 提供白牌授權部署，方便合作夥伴或企業客戶以自有品牌推出服務。

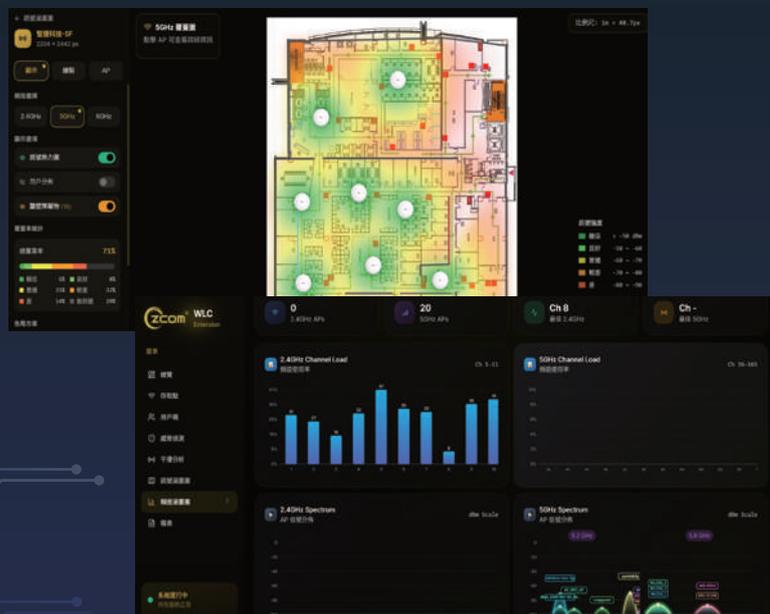**單一整合介面（Unified UI）**
有線 + 無線 + AI 應用 — 一鍵式管理

原生支援所有 Z-COM AP
可管理所有 Z-COM AP — 升級零門檻

模組化授權機制
可依需求變更啟用不同功能，依洽談需求付費

訊號覆蓋・干擾偵測・用戶定位
Coverage · Interference · Positioning

打破了傳統硬體限制,為無線網路控制帶來前所未有的靈活性

CRONUS整合了無線控制器(WLC)和網路管理系統(NMS)於單一介面,大幅簡化網路管理的複雜度

交通部鐵道局
國家級資安智慧辦公環境

實際案例

透過部署解決高密度
連線&跨樓層無縫漫遊

- NMS + 可視化介面
- 可視化拓樸管理
- 主動告警機制

節省約 **89%** 硬體成本
Save up to 89% Hardware Cost

虛擬 WLC 市場

27% 年複合成長率
Virtual WLC Market 27% CAGR

智慧醫療 / 智慧製造
Smart Healthcare/Smart Factory
對設備高精準度追蹤
High-precision Device Tracking

智慧城市 Smart City
公共空間導航&人流分析
Public Space Navigation & Traffic Analysis

"NEW"
Network Extension with Wire and Wireless Platform

① 統一管理介面

"NEW" Platform UI
統一操作儀表板‧單一介面管理
zMEC 技術驅動

② 應用模組‧模組化‧擴充 功能

Cronus
WLAN 控制器

無線網路
網路可視化管理

精準定位
定位模組
(擴充功能)

EMS能源管理
能源管理模組
(擴充功能)

資安防護
資安防護模組
(擴充功能)

③ **zMEC邊緣平台‧容器化運算與儲存‧Docker**

zMEC 邊緣運算平台 X86 Intel

地端邊緣設備 — 可在本地運行所有 NEW 模組，無需依賴雲端

1. 1U 標準機架伺服器

2. 無風扇工業級伺服器

3. 桌上型網路設備

④ **連接設備‧Wi-Fi 7 / Wi-Fi 6 / Wi-Fi 5‧有線與無線網路延伸**

Wi-Fi 7	Wi-Fi 7	Wi-Fi 6	Wi-Fi 6	Wi-Fi 5
AS710	**AS720**	**AS240**	**SP250-S5**	**SP230-S5**
室內無線存取點	AIoT無線存取點	室內無線存取點	點對點橋接	點對點橋接
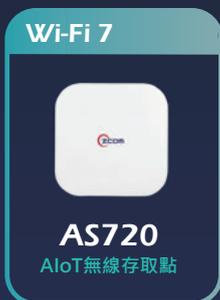
Find the Right Solution First
Which Deployment Fits Your Site?

您的場域需要管理多少台 AP？

小型規模・3–10 APs　　　　**中大型規模・10+ APs**

Smart Connect (Mesh)

◆ 直接跑在 AP 上，其中一台會自動成為 Master

◆ 其他 AP 自動加入並形成 Mesh 網路

◆ 完全不需要額外的控制器或伺服器

◆ 即插即用，部署快速

NEW Platform (集中控制方案)

◆ NEW 平台透過一個統一的儀表板管理所有 AP

◆ 整合有線網路、無線 AP、能源管理於單一介面

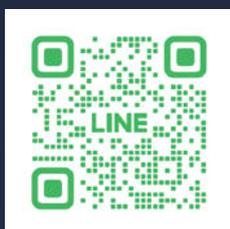◆ 同時支援使用者認證、報表與進階安全策略

◆ 可選配室內定位、能源管理等加值模組

零售門市　　　小型辦公室　　　　企業園區　　　醫院　　　展覽館

立即聯繫我們
探討您的客製化解決方案

預約專業諮詢

VE-PG4 Gateway

zMEC

Heterogeneous Network Communication Platform

Control Center

SP250 series Outdoor AP

IP503H Lite LTE

walkie-talkie

AG260 Gateway

zMEC

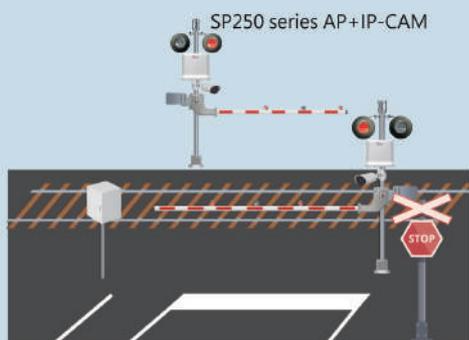Heterogeneous Network Communication Platform

IP110H Wi-Fi

walkie-talkie

AS710 Indoor AP

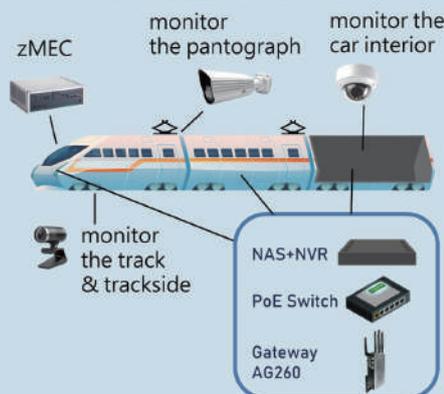Wi-Fi

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.

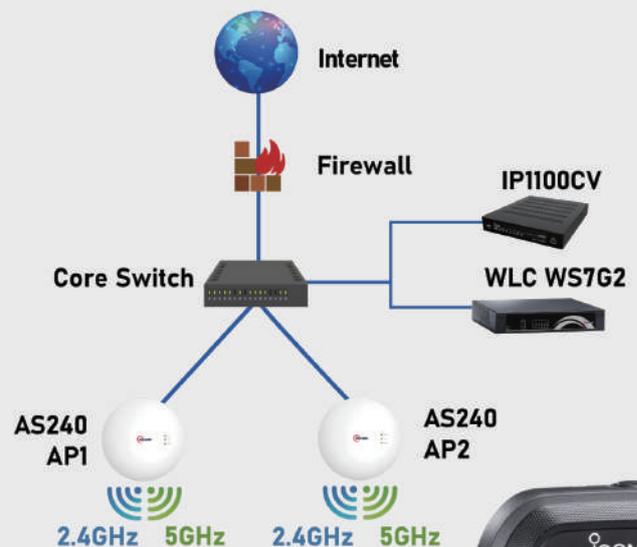**Slope Monitoring**

Pantograph Inspection

AI Object Detection

Campus Safety:
Fast Response, Clear Alerts

IP110H Instant Two-Way Communication – Never Miss an Emergency

Attention! Intruder on campus

Currently heading toward the 1st floor of the teaching building – Keep students away

IP110H

Bus Route 14 has arrived

School anniversary setup team has arrived at the gymnasium stage for unloading

IP110H

Fire in the chemistry lab – Guide nearby classrooms to evacuate

IP110H

Wi-Fi Intercom

In large campuses, teachers often struggle with real-time communication due to classes, movement, or being spread across different locations, leading to delays in handling emergencies. The Japanese brand Icom Wi-Fi Intercom requires no additional wiring and ensures seamless connectivity anytime, anywhere on or off campus.

Internet

Firewall

IP1100CV

Core Switch

WLC WS7G2

AS240 AP1

AS240 AP2

2.4GHz 5GHz   2.4GHz 5GHz

Safety Protection
Every Second Counts

When suspicious individuals intrude or sudden incidents occur on campus, every second is critical. The Wi-Fi Intercom allows teachers to notify the entire school immediately and contact specific locations or personnel in real time, effectively reducing risks.

**Instant Communication
No Dead Zones**

**Clear audio quality
Minimizes interference**

**No dialing required
Frees up both hands**

**One-button group call
integrated with
broadcast system**

**Secure against
eavesdropping Does
not use public frequencies**

Current Pain Points in Campus Communication

✕ **Fixed extension phones**

Cannot identify the receiving teacher; inefficient communication

✕ **Need to dial phone numbers/select contacts**

In campus emergencies, unable to perform one-button group call to reach all areas

✕ **Traditional broadcasting**

Must go to the staff room or broadcast room to announce

✕ **Unstable call quality with lots of noise**

Always searching for quiet spots with signal; frequent movement between indoor and outdoor

Wi-Fi Wireless Intercom

O **Real-time contact with designated personnel**

Identifies specific devices and connects with mobile teachers

O **One-button instant calling**

No need to remember phone numbers; protects personal privacy

O **One-button group call**

Stay in control of emergencies anytime, anywhere

O **No worries about signal interference or eavesdropping**

Professional communication network delivers clearer audio without interference or eavesdropping risks

Enhances onsite
safety management
construction coordination

IP503H Lite LTE Intercom

Zero-Delay Communication

- No wiring required – Quick deployment
- Reduces communication costs
- Ready to use out of the box
- Lowers communication expenses

Project Scheduling

Different teams (rebar, concrete, formwork, piping) need to work in sync

Safety Management

Alert dangerous zones; notify surrounding personnel to evacuate before blasting or hoisting

Vehicle Operation Management

Smooth communication with onsite teams accelerates decision-making and response efficiency

Emergency Response

In case of personnel injury, instantly call onsite medical team or ambulance

Critical Commands
Noise-Resistant, Clear, and Never Missed

Construction sites often involve large teams and overlapping processes. Delayed communication can cause project delays or even safety accidents. Icom IP503H Lite LTE Intercom provides full-area coverage, ensuring seamless connection across floors and zones. One-button group calling allows supervisors to command multiple teams and heavy vehicle operators simultaneously, avoiding misunderstandings and risks. Paired with high-volume noise-resistant design, commands are clearly heard even in noisy construction environments. The IP503H Lite enhances onsite safety management and construction coordination, truly resolving issues like unstable signals, delayed contacts, and missed instructions.

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
Award
2023 iSports Enterprise
Certificate

Win Award for
Most Promising Carrier
Grade Wi-Fi Company
by DigiAnalysis India
SP230-S5 Outdoor AP
won the 31st Taiwan
Excellence Award 2023
SP250-S5 Outdoor AP
Wins Best Product at
21st National Brand
Yushan Award

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

**Capability
R & D**

**Design for
manufacturability and
with its own production
lines**
Production

**Quality
control with
strict standards**

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

**With
various
certifications**
ISO9001、ISO14001
REACH、RoHS

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

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