EDIMAX
NETWORKING PEOPLE TOGETHER

Business Networking Solution Guide
2017

31 Years in the Industry

1st Innovative Products

20+ Worldwide Offices

Why Edimax

- 31-year networking R&D, manufacturing and marketing experiences.
- Continually introducing world's FIRST innovative products for example wall-plug Wi-Fi range extender/repeater, AC1200 USB3.0 Wi-Fi Adapter, AC1200 5-in-1 Wi-Fi router and etc.
- Leading-edge wireless technology & closed partnership with chipset vendors.
- Outstanding ID design & easy to install mechanical design.
- Intuitive software with in-house engineering team.
- Cost efficiency & competitive price (TCO) solution.
- Award-winning products.

Contents

iF DESIGN AWARD 2017

TAIWAN EXCELLENCE 2017

COMPUTEX d&i awards 2016

reddot award 2015 winner

ICT Month Innovative Elite 2014 Golden Awards

BC AWARD Best Choice

High Performance 11ac Wi-Fi

The **latest 802.11ac Wave 2** expands on Wi-Fi gigabit speeds with more channel width (80 + 80MHz), more spatial streams (4 x 4 : 4) and **MU-MIMO** (Multi-User MIMO) to offer high performance connectivity.

IEEE802.11ac Wave 1 v.s. Wave 2

	802.11ac Wave 1	802.11ac Wave 2
Band	5GHz	5GHz
PHY Rate*	1.3 Gbps	2.34 Gbps - 3.47 Gbps
MU-MIMO	Single User (SU)	Multi User (MU)
Channel Width	20, 40, 80 MHz	20, 40, 80, 80+80, 160Mhz
Spatial Streams	3	4
Modulation	256 QAM	256 QAM
Ethernet Uplink	1 Gigabit	1 Gigabit, 2.5 Gigabit or 10 Gigabit

*PHY Rate: The physical layer (PHY) rate is the speed at which client devices communicate with the AP.

High Efficiency

Band steering is a technology that detects if the wireless client is dual-band capable, and then pushes the client to connect to the less congested 5GHz network for band loading balance and more efficient Wi-Fi transmission.

Always Stay Connected

Fast roaming support so wireless devices can roam smoothly between multiple access points, with **IEEE 802.11r and IEEE 802.11k** network standards for always-connected Wi-Fi and reliable data and voice communications.

Reliable and Optimized Wi-Fi

With **Auto-Pilot**, power and channel options are automatically set and adjusted to keep Wi-Fi running optimally. And **Self-Healing** increases Wi-Fi reliability with both automatic WLAN healing after loss of an AP, and power and channel adapting when RF interference occurs.
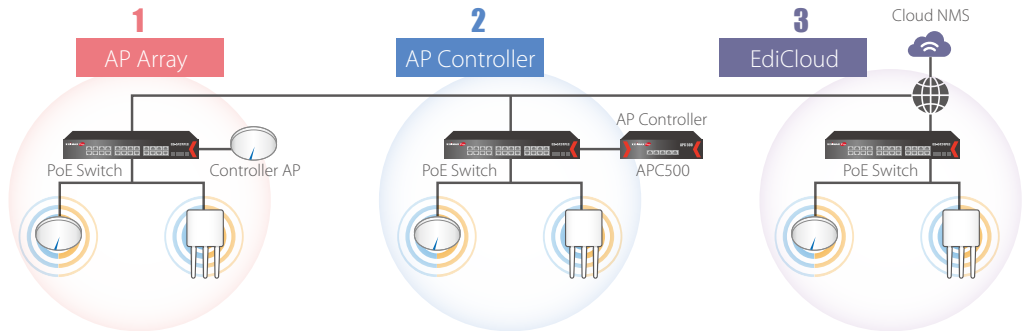
Wi-Fi for Guests

With built-in **Guest Network** features to isolate guests onto a separate Wi-Fi network. Guests don't have to use the office Wi-Fi, meaning the main office network is kept private and secure.

Perfect Flexible Management Options

All Edimax Pro AP Series (CAP, WAP, OAP and IAP) can be managed using Edimax Pro **Unified Software Management** solutions. This includes the built-in Network Management Suit (NMS with **AP Array** structure), **AP Controller** (APC500) and **EdiCloud NMS** depending on the demands of various applications and scale of the Wi-Fi networks.

1 AP Array

2 AP Controller

3 EdiCloud

Cloud NMS

AP Controller

PoE Switch   Controller AP

PoE Switch   APC500

PoE Switch

Self-Registration Wi-Fi Access

SMS Authentication* is a simple way to authorize users via mobile phone SMS (Short Message Service) when connecting to Wi-Fi hotspots.

*Supported with project base.

User-Friendly Wi-Fi Ticketing

Supports **Wi-Fi Ticketing** for hotspots such as hotels or libraries with Wi-Fi account, password and limited-time access. The information can be printed on a user-friendly ticket using any printer, with specialized POS printers not required.

Custom Login Page

Create **Captive Portals** for customized login pages with company logo, marketing banners and terms of service. Users are required to pass through the portal to connect to the Wi-Fi network, so hotels, hospitals, schools, cafes, restaurants, airports, shopping malls or business centers can all benefit greatly from heightened security and better marketing opportunities.
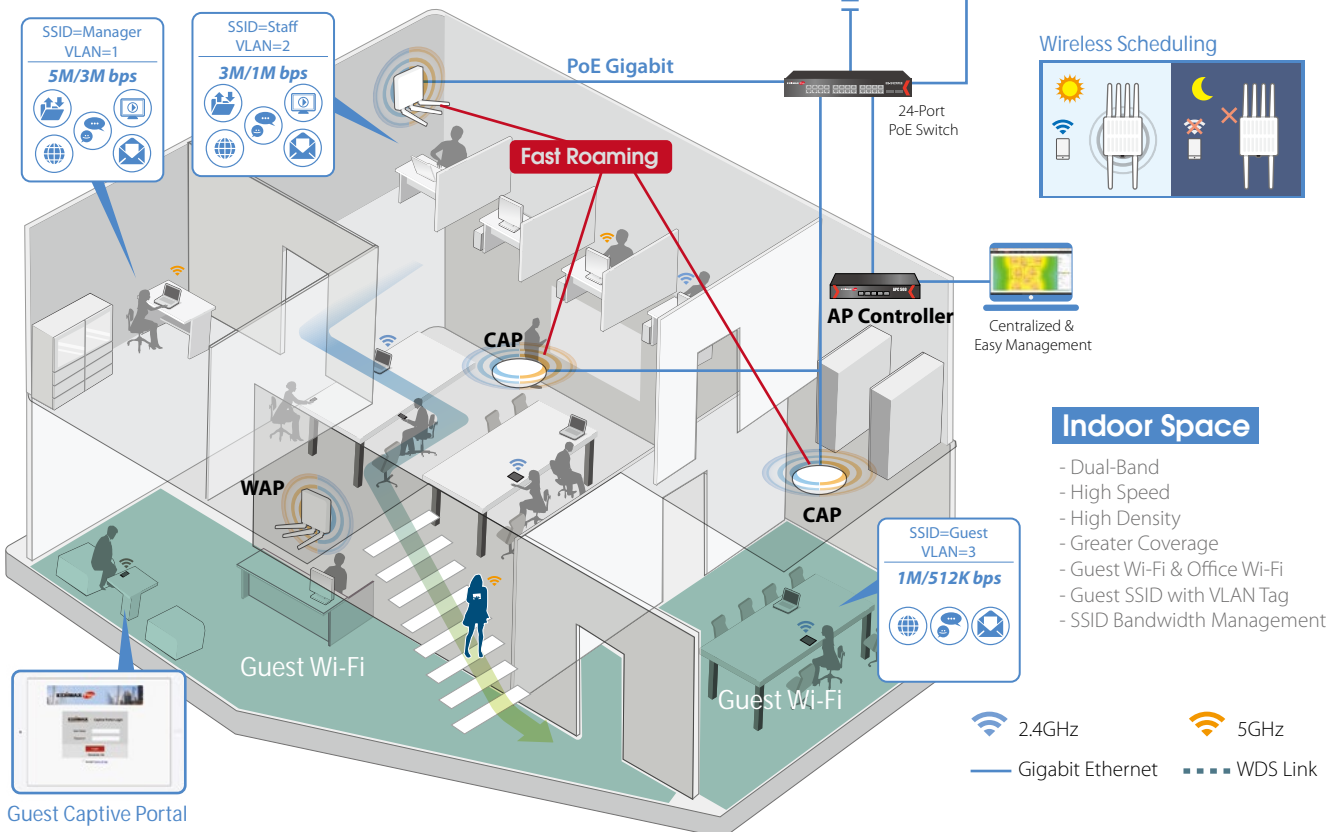
Ready to Use Office Wi-Fi System

A dedicated office package includes 3 x CAP1300 access points for Wi-Fi networks with 50 to 100 clients. The system includes **free licenses** for the **built-in Network Management Suite (NMS)** and is designed to be ready-to-use, with only a few clicks needed for setup. The **guest and office networks are ready right out of the box.**

Office Solution

Wi-Fi is essential for businesses around the world and has become a real, cost-effective alternative to traditional Ethernet networks. Smartphone, tablet and laptop use has exploded, with devices becoming more powerful and affordable than ever before. Employees, clients and customers not only expect to connect without wires, but depend on it. And your business depends on it. Effective wireless solutions improve productivity and provide strategic advantage. Business-critical applications can be accessed across an entire organization, and traditional departmental boundaries can be extended for new levels of collaboration, co-working and information flow. Business is faster, better and simply more efficient.

OAP

OAP

OAP

Internet

Wireless Scheduling

SSID=Manager
VLAN=1
5M/3M bps

SSID=Staff
VLAN=2
3M/1M bps

PoE Gigabit

24-Port
PoE Switch

Fast Roaming

AP Controller

Centralized &
Easy Management

CAP

WAP

CAP

SSID=Guest
VLAN=3
1M/512K bps

Indoor Space

- Dual-Band
- High Speed
- High Density
- Greater Coverage
- Guest Wi-Fi & Office Wi-Fi
- Guest SSID with VLAN Tag
- SSID Bandwidth Management

Guest Wi-Fi

Guest Wi-Fi

Guest Captive Portal

📶 2.4GHz   📶 5GHz

── Gigabit Ethernet   ▪▪▪▪ WDS Link

Case Study

Latest High-Speed 11ac Wi-Fi for Better Work Communications in a Seven-Floor Building

Background

A world leading brand of advanced network communication products since 1986. With more than 20 branch offices worldwide, the company's presence spans across North America, Asia and Europe with headquarters in Taipei, Taiwan. Moving into a new headquarters building encompassing seven floors, the challenge is to deploy both traditional wired Ethernet connectivity and a powerful Wi-Fi network for staff.

Requirement

Over 30% of staff members use laptops for daily work and are mobile across meeting rooms and departments.

- Support for 100+ staff per floor and 50+ per meeting room.
- Better coverage across the entire workplace.
- Fast Wi-Fi for efficient communications, video, and data transmission.
- Uninterrupted connection for mobile devices as users move around.
- Bandwidth management for departments and staff levels.
- Secure environment with separate guest network.
- Custom login pages for guests and staff.

Solution

Model	Number	Purpose
APC500	1	Central Manage Edimax Pro Access Points
GS-5424PLG	7	Cost-Saving Wired Network Deployment with PoE
CAP1750	35	Provide High-Density Wi-Fi Coverage
WAP1750	14	Support Seamless Roaming Between Floors

35 CAP1750 ceiling-mount access points with high-speed 11ac Wi-Fi were installed to meet Wi-Fi demands for staff and improve productivity with high-density coverage. An additional 14 high-speed WAP1750 wall-mount access points were installed in the stairways, with adjustable antennas facing both up and down to ensure seamless full coverage. Cost efficiency is achieved with Edimax GS-5424PLG PoE switches and MIS can manage up to 128 Edimax Pro access points remotely with an APC500 AP Controller.
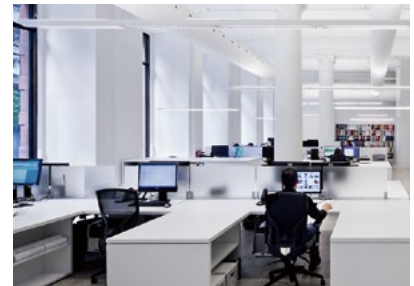
Wi-Fi for working area.
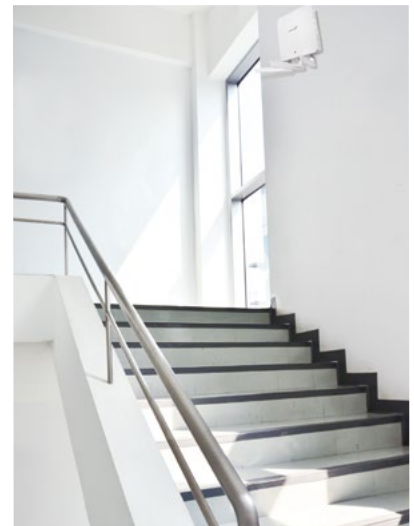
Seamless Wi-Fi in stairways.

Guest Wi-Fi in the lobby.

Case Study

High-speed Wi-Fi Video Transmission
Increases Productivity and Line Safety

Background

A Taiwan-based market leader in the refined stainless steel industry providing high quality products and stainless steel finishes. The factory spans 11,779 sq. meters with 9,000 MT per month capacity. Service and maintenance on the existing CCTV system is costly and time-consuming with poor video resolution which can't effectively monitor the production line. It was determined that high-speed Wi-Fi for a new IP-based surveillance system was needed.
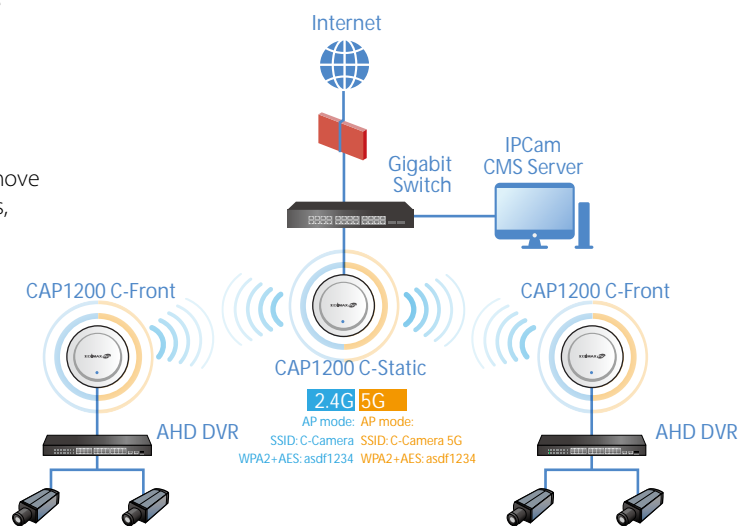
Requirement

· Easy and fast deployment since the factory's overhead cranes, moving stackers and heavy stainless rolls are a difficult environment for wiring and cables and have tight production schedules.

· Fast, stable and reliable Wi-Fi for high-quality surveillance camera video transmission and backup, with coverage across the entire factory.

· Seamless roaming for staff on the network as they move around the factory including the factory floor, offices, and production lines.

Internet

Gigabit Switch

IPCam CMS Server

CAP1200 C-Front

CAP1200 C-Static

CAP1200 C-Front

2.4G 5G
AP mode: AP mode:
SSID: C-Camera   SSID: C-Camera 5G
WPA2+AES: asdf1234   WPA2+AES: asdf1234

AHD DVR

AHD DVR

CAP1200 Access Point wireless deployed in the factory.
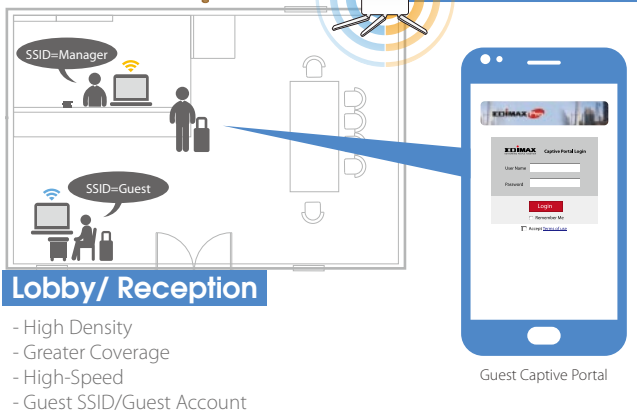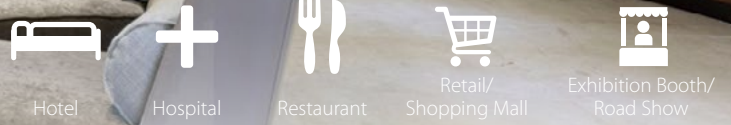
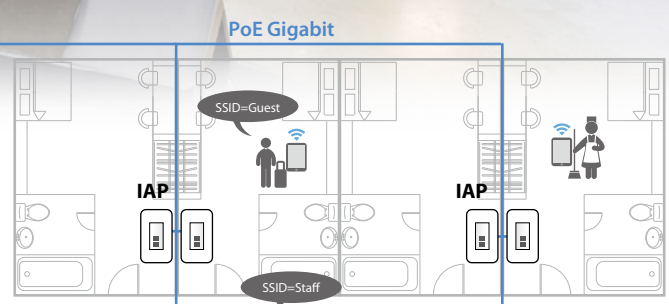### Solution

Model	Number	Purpose
CAP1200	7	Provide High-Speed, Seamless Wi-Fi Coverage with a Cost-Efficient PoE Deployment.

A high-speed 11ac Wi-Fi network with Edimax Pro CAP1200 Gigabit PoE Access Points was installed while AHD HD equipment was used for surveillance. CAP1200s offer fast and reliable Wi-Fi coverage so staff stay connected around the factory and multiple SSIDs were created, organizing managers, employees and monitoring systems onto different networks for better security and reliability. Managers can monitor the production line any time via mobile devices, with seamless roaming across the whole factory.
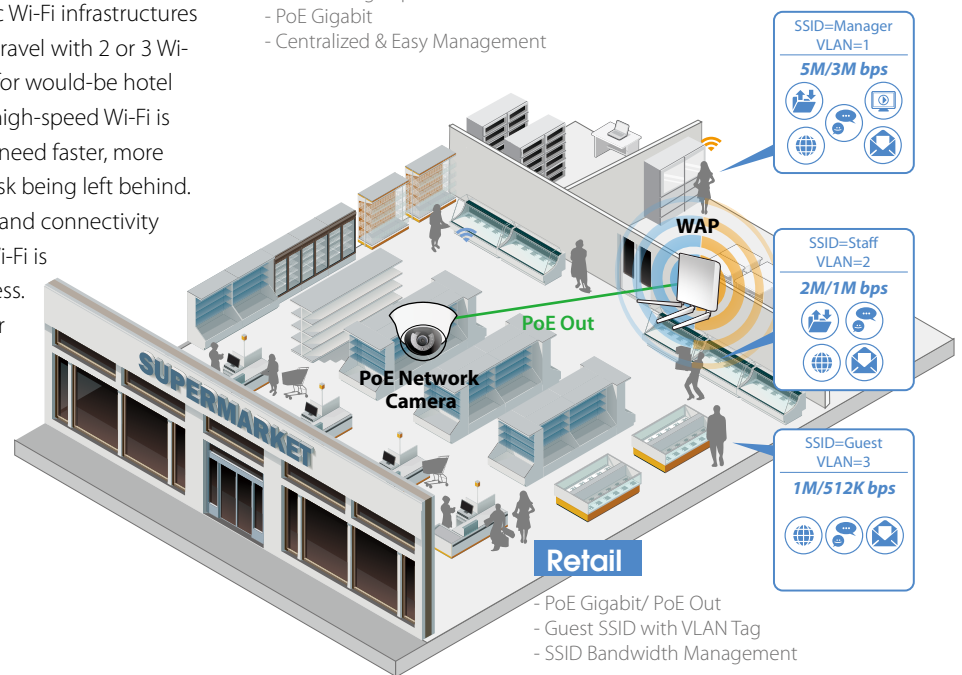

CAP1200 Access Point connected with the AHD DVR.

Hospitality
Solution

Hotel + Hospital   Restaurant   Retail/ Shopping Mall   Exhibition Booth/ Road Show

Centralized & Easy Management

APC500
AP Controller

24-Port PoE Switch

PoE Gigabit

SSID=Guest

IAP   **IAP**

SSID=Staff

IAP   **IAP**

MALL HOTEL

WAP

PoE Gigabit

SSID=Manager

SSID=Guest

Lobby/ Reception

- High Density
- Greater Coverage
- High-Speed
- Guest SSID/Guest Account

Guest Captive Portal

Guest Room

- IAP In-Wall AP Easy Deployment
- In-Room Dual-Band
- AC1200 High Speed
- PoE Gigabit
- Centralized & Easy Management

📶 2.4GHz   📶 5GHz

—— Gigabit Ethernet

Hospitality venues may need to provide dynamic Wi-Fi infrastructures that cater for hundreds of devices. Guests often travel with 2 or 3 Wi-Fi devices each, and Wi-Fi is an important factor for would-be hotel guests choosing where to stay. These days, free high-speed Wi-Fi is simply expected as standard. Hospitality venues need faster, more reliable Wi-Fi at a lower cost of ownership – or risk being left behind. In an industry where details matter, interference and connectivity issues are just not an option. And user-friendly Wi-Fi is a further opportunity to differentiate your business. Personalize the guest experience, build customer loyalty and even offer targeted marketing. And with better communication between your teams, secure administration tools, and better connectivity for wireless PoS systems or hand-held order and check-in devices, you can improve operational efficiency and reduce costs across your organization.

SSID=Manager
VLAN=1
5M/3M bps

SSID=Staff
VLAN=2
2M/1M bps

WAP

PoE Out

PoE Network Camera

SUPERMARKET

SSID=Guest
VLAN=3
1M/512K bps

Retail

- PoE Gigabit/ PoE Out
- Guest SSID with VLAN Tag
- SSID Bandwidth Management

Case Study

Higher Customer Satisfaction Thanks to Reliable, High-speed 11ac Wi-Fi.

Background

A modern 3-star European hotel offering 221 well-equipped guest rooms and a full range of business facilities close to Moskovsky Station, central St. Petersburg. Wi-Fi access is essential for guests when choosing hotel since guests bring multiple mobile devices and demand smooth Wi-Fi for data and video streaming. The hotel already had existing Wi-Fi but internal reviews determined that the service was no longer satisfactory.
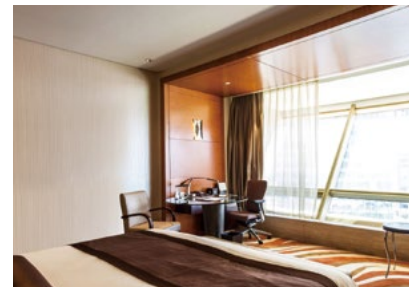
CAP1200 Access Point installed in the guest room areas.

Requirement

· Restaurant, bar, lobby, guest rooms, conference rooms and corridors must have Wi-Fi coverage.

· Upgrade to high-speed 11ac Wi-Fi ensuring fast service for years to come.

· Support for up to 100 people in conference rooms for seminars and events, as well as elsewhere around the hotel.

· Wi-Fi connection must be seamless so that guests won't be disconnected while moving around the hotel.

· Easy and efficient network management so that hotel employees can properly manage the Wi-Fi network.

CAP1200 Access Point installed in the conference room.

APC500

128 APs managed by **ONE** single AP controller
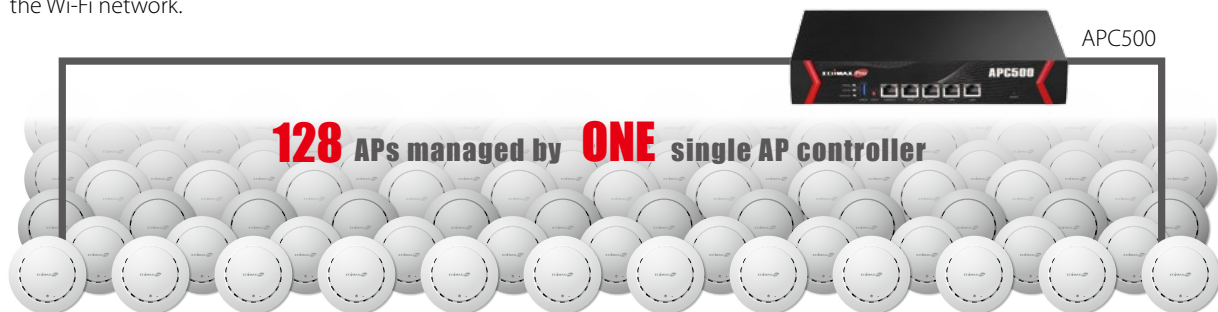
Solution

Model	Number	Purpose
APC500	1	Network Management
GS-5424PLG	4	Cost-Saving PoE Deployment
CAP1200	86	High-Density, Seamless Fast Roaming Wi-Fi Coverage

86 CAP1200 Gigabit PoE Access Points, with an APC500 Controller and four GS-5424PLG 24-port Gigabit PoE+ switches were installed. Wi-Fi is dual-band and high-speed with speeds of 867Mbps at 5Ghz and 300Mbps at 2.4GHz for up to 100 concurrent users on each access point. PoE switches were deployed to provide power and Gigabit with no new wiring. And the APC500 controller provides powerful and easy-to-use management – dedicated to manage up to 128 access points for exceptional cost efficiency.

Case Study

Outdoor Long Range Wireless Distribution for Improved Guest Experience

Background

A reputable golf club in Hsinchu County, Taiwan which is renowned for stunning scenery and has hosted numerous international golf events. The existing network was a hurdle for the club's development, relying on low-end 8M/640k ADSL network speeds with no easily available FTTH. With vast premises, remote geography and poor 3G/4G signal availability, guests were frustrated and club operations were often inconvenienced with low-speed patchy coverage.

Requirement

- Link the central network to a high-speed FTTH broadband infrastructure.
- Complete Wi-Fi coverage connecting clubhouse and restaurants across distances up to 900 meters.
- Reliable, fast and consistent network performance to smooth POS operations and ensure guest connectivity in the clubhouse and restaurant.
- Bandwidth management system and secure firewall.
- Resistant to changeable weather: heat, sunlight, rain & fog.

Solution

Model	Number	Purpose
OAP1750	4	Stable Outdoor Wi-Fi Distribution
CAP1200	2	Indoor WDS Wi-Fi Distribution
CAP300	3	High-Density Wi-Fi Coverage

A 300/400Mbps FTTH service of the staff dorm was identified roughly 550 meters from the clubhouse. A seamless Wi-Fi network could be built with WDS (Wireless Distribution System), enabling wireless access point interconnection without physical cabling. Four OAP1750 APs with weather-proof housing bridged the Wi-Fi and linked to 2 x CAP1200 and 3 x CAP300 indoor APs. Covering up to 890 meters to the restaurant, the system enables operation at FTTH speeds with 802.11ac Wi-Fi and runs Edimax NMS for central network management.
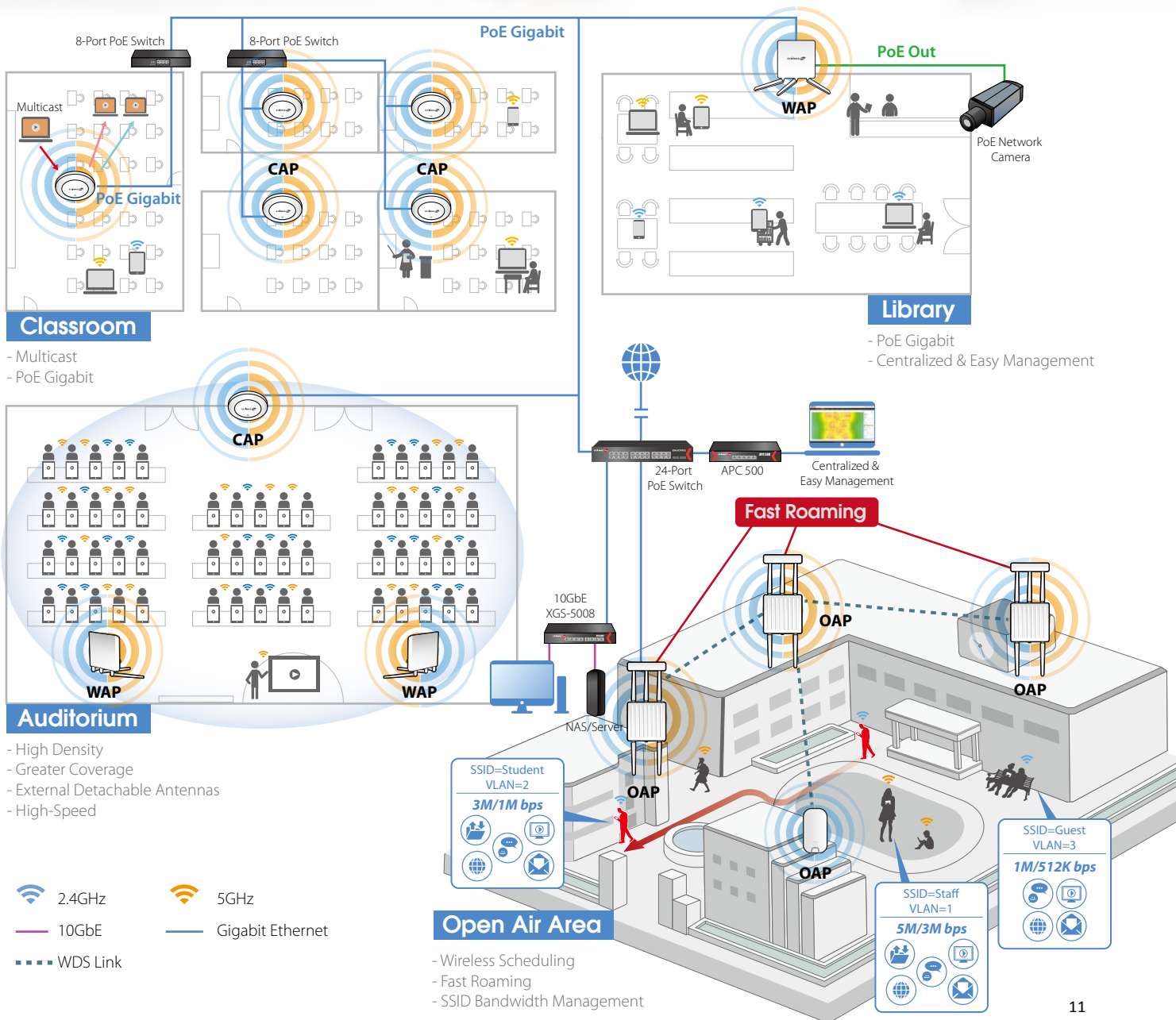

Wi-Fi for restaurant.

Staff Dorm

Highway

550m

Golf Clubhouse

890m

Golf Course

Restaurant
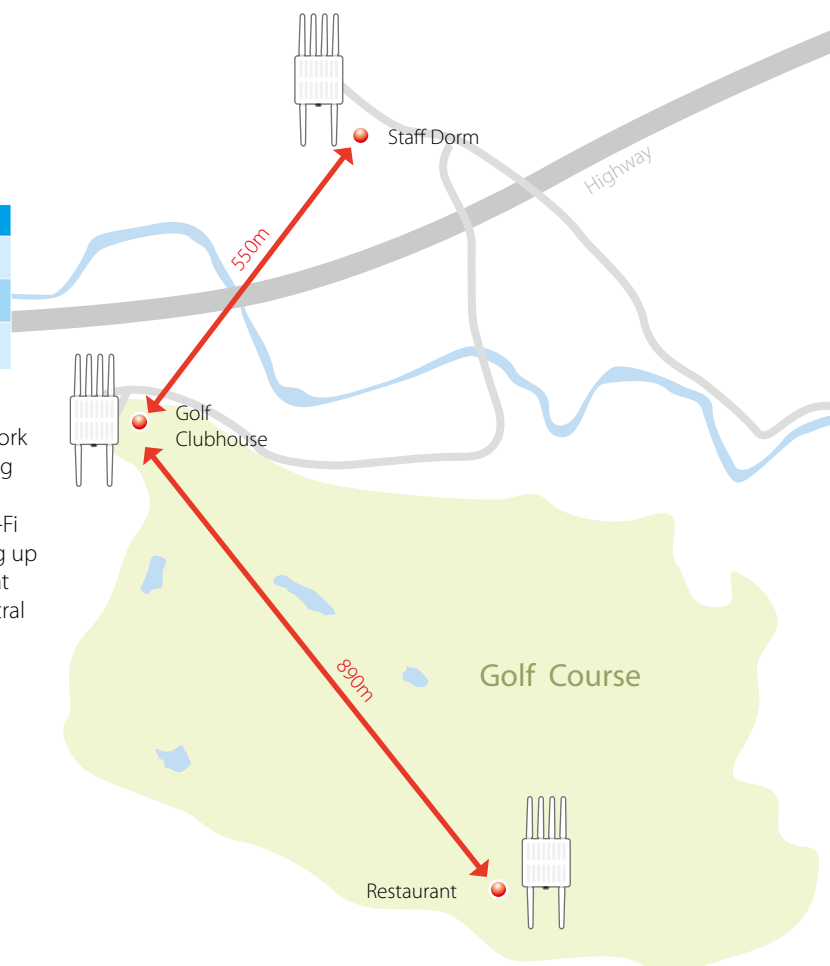
Education
Solution

Children and students are growing up in a new era, and education institutions face the challenge of keeping up. The evolution and modernization of learning environments is underway with wireless technology becoming as indispensable as traditional textbooks. The benefits of WLAN deployment are enormous with smart, interactive classrooms, new teaching tools, digital materials and enhanced interactive learning resources. And technological proficiency is an increasingly critical factor in young students' higher education and employment prospects later in life.

Classroom
- Multicast
- PoE Gigabit

Library
- PoE Gigabit
- Centralized & Easy Management

Auditorium
- High Density
- Greater Coverage
- External Detachable Antennas
- High-Speed

Open Air Area
- Wireless Scheduling
- Fast Roaming
- SSID Bandwidth Management

Legend:
- 📶 2.4GHz
- 📶 5GHz
- ── 10GbE
- ── Gigabit Ethernet
- ▪▪▪ WDS Link

Diagram labels:
- 8-Port PoE Switch
- Multicast
- PoE Gigabit
- CAP
- WAP
- PoE Out
- PoE Network Camera
- Fast Roaming
- 24-Port PoE Switch
- APC 500
- Centralized & Easy Management
- 10GbE XGS-5008
- NAS/Server
- OAP
- SSID=Student VLAN=2 — 3M/1M bps
- SSID=Staff VLAN=1 — 5M/3M bps
- SSID=Guest VLAN=3 — 1M/512K bps

Case Study

Wi-Fi Encourages Efficient Learning Experiences

Background

An Information Technology Institute in Allahabad, India – established in 1999 and ranked in India's top 75 engineering colleges. Their existing network offered slow speeds, low coverage and low capacity – consisting of improvised solutions designed for home use. The computer classrooms where students learn the newest computer technology ironically offered slow and outdated Wi-Fi speeds. The school established plans to upgrade academic building's Wi-Fi to the newest high-speed 11ac Wi-Fi standard so that student facilities and learning experiences can be improved.

Requirement

The academic building and the computer labs needed 11ac high-speed Wi-Fi coverage with the following specific needs:

- Lag-free multimedia & streaming for lesson content, high-res images, video streaming and interactive activities.
- Efficient access points with greater coverage and capacity for Wi-Fi devices per each AP for cost-efficiency.
- Easy upgrades for desktops in the computer labs to utilize the new high-speed 11ac Wi-Fi network.

The computer lab desktops upgraded to 11ac high speed Wi-Fi.

Solution

| Model	Number	Purpose
CAP1200	12	High-Density Wi-Fi Coverage with Multicast.
EW-7822UAC	200	High-Speed USB 3.0 AC1200

A total of twelve Edimax Pro CAP1200 access points were deployed for high-speed Wi-Fi up to 867Mbps (5GHz) and 300Mbps (2.4GHz) in the main academic building class rooms, computer labs and corridors, supporting up to 100 concurrent users each. Approximately fifty desktop computers in each lab were upgraded with EW-7822UAC USB 3.0 Wireless Adapters, which support 11ac Wi-Fi and USB 3.0 – since lower USB standards will bottleneck speeds at below 11ac capacity.

11ac Wi-Fi with high density in the classroom.
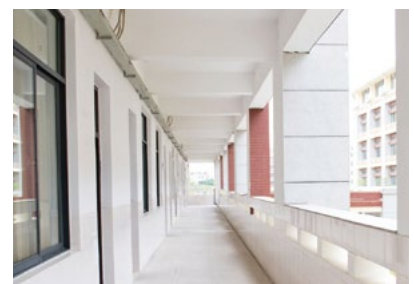
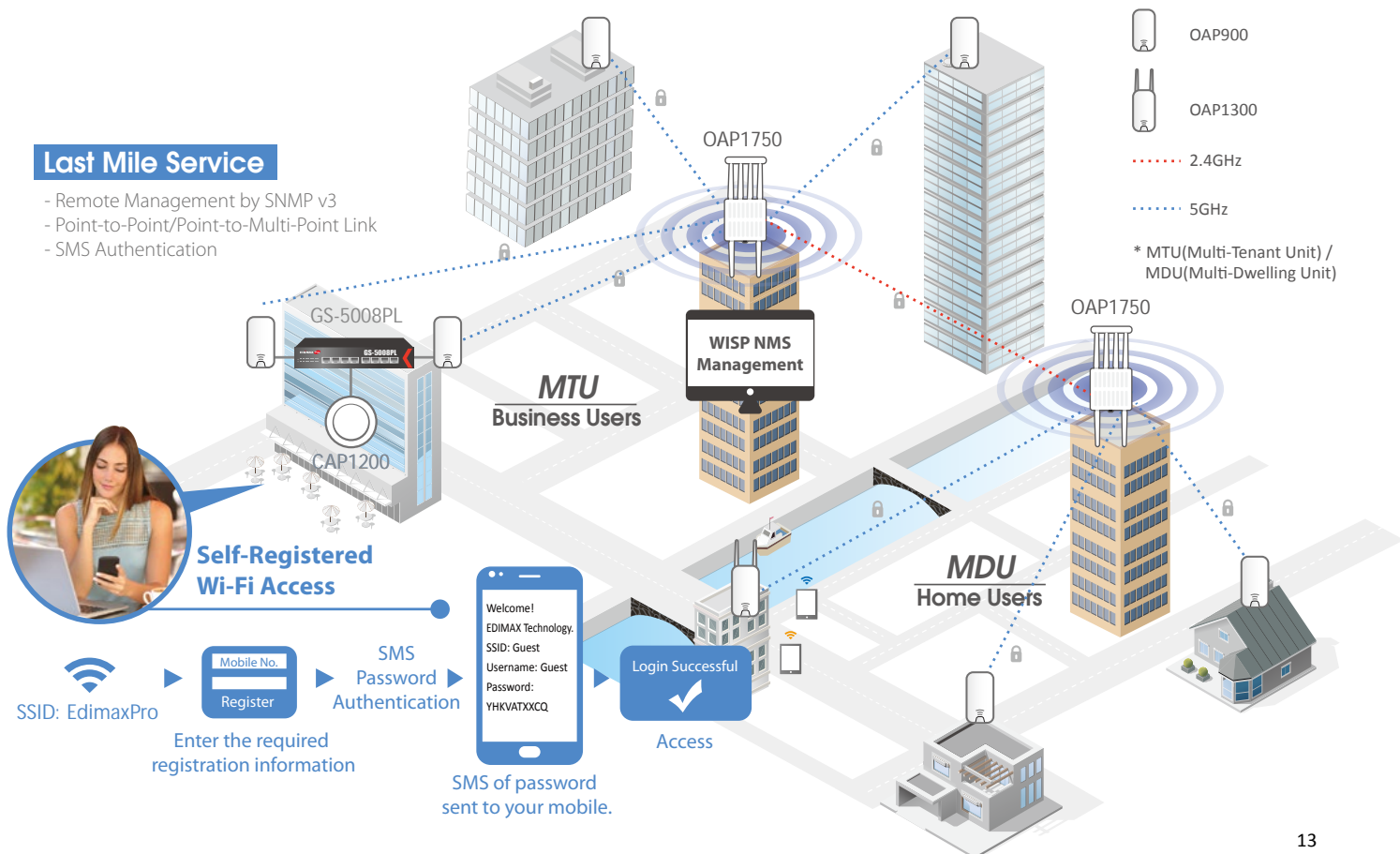11ac Wi-Fi with coverage in the corridor.

WISP
Solution

Edimax Pro Solutions help WISPs to provide Internet from remote service centers to local areas, spreading connectivity to customers in sparsely populated places. For WISPs, the ability to build reliable high-speed networks is crucial. Edimax Pro helps you overcome the common challenges and provide the best service. To maximize network performance and stability, OAP Base Stations contain enterprise-level chipsets, high gain-antennas and high-power amplifiers – to meet demand in high-growth areas such as MDU (Multi Dwelling Unit), MTU (Multi Tenant Unit) and public areas. Outdoor base stations and CPE (customer premise equipment) combinations are suitable for point-to-point wireless backhauls or point-to-multiple point coverage and last-mile bandwidth offload. Since CPEs and base stations are usually distributed and installed throughout vast geographic areas, on-site management can be a major inconvenience.

Backbone Service

- Long Range Support up to 3KM+
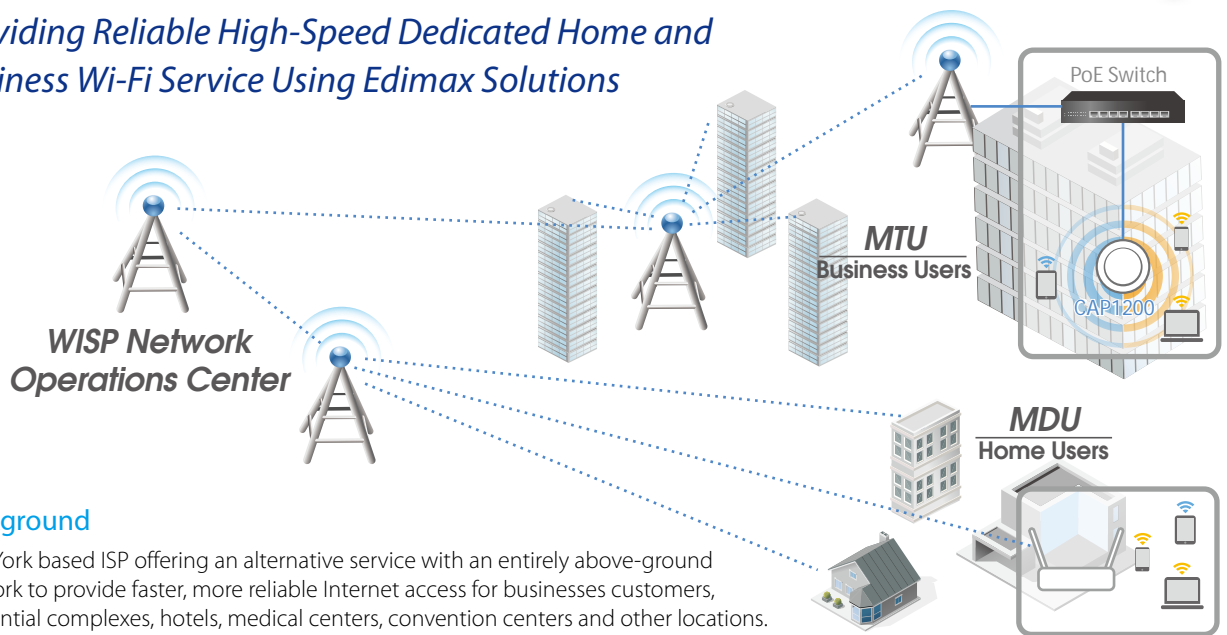- Cost-Effective Solution v.s. Wired Deployment
- Ideal Outdoor Companion

Last Mile Service

- Remote Management by SNMP v3
- Point-to-Point/Point-to-Multi-Point Link
- SMS Authentication

OAP900

OAP1300

---- 2.4GHz

---- 5GHz

* MTU(Multi-Tenant Unit) /
  MDU(Multi-Dwelling Unit)

OAP1750

OAP1750

WISP NMS
Management

GS-5008PL

CAP1200

MTU
Business Users

MDU
Home Users

**Self-Registered
Wi-Fi Access**

Welcome!
EDIMAX Technology.
SSID: Guest
Username: Guest
Password:
YHKVATXXCQ

Login Successful

Access

SSID: EdimaxPro

Mobile No.
Register

SMS
Password
Authentication

Enter the required
registration information

SMS of password
sent to your mobile.

Case Study

Providing Reliable High-Speed Dedicated Home and Business Wi-Fi Service Using Edimax Solutions

PoE Switch

MTU
Business Users

CAP1200

WISP Network
Operations Center

MDU
Home Users

Background

New York based ISP offering an alternative service with an entirely above-ground network to provide faster, more reliable Internet access for businesses customers, residential complexes, hotels, medical centers, convention centers and other locations. The company is recognized for its high customer satisfaction due to superior service quality and reliability. With round-the-clock network technical support and continuous network monitoring by remote management support teams.

Requirement

· Internet speeds must be from 5 / 5 Mbps to 1 / 1 Gbps. The ISP's connections are dedicated point-to-point and connection speeds are guaranteed by a Service Level Agreement (SLA).
· Reliability must be best-in-industry. When other major ISPs went down during a hurricane, they remained operational. Its dedicated point-to-point redundant network is built to re-route traffic and reach customers' locations from multiple network centers to guarantee availability 24/7.

Solution

Model	Number	Purpose
CAP1200	Thousands	Access Point for Business Users' Wi-Fi.
BR-6478AC V2	Thousands	WISP Mode for Residential Users' Wi-Fi.

Edimax Pro CAP1200 access points and BR-6478AC V2 WISP routers are perfect solutions for outdoor Point-to-Point AP networks, with PoE switch support and WISP connectivity. The high-speed dual-band CAP1200 11ac access point features high-density support, speeds up to 1200Mbps and the BR-6478AC V2 is a multi-functional Wi-Fi five-in-one device, which is pre-set to WISP mode so residential customers can access Wi-Fi services without any wiring deployment.

Residential/ home Wi-Fi.

Business Wi-Fi.
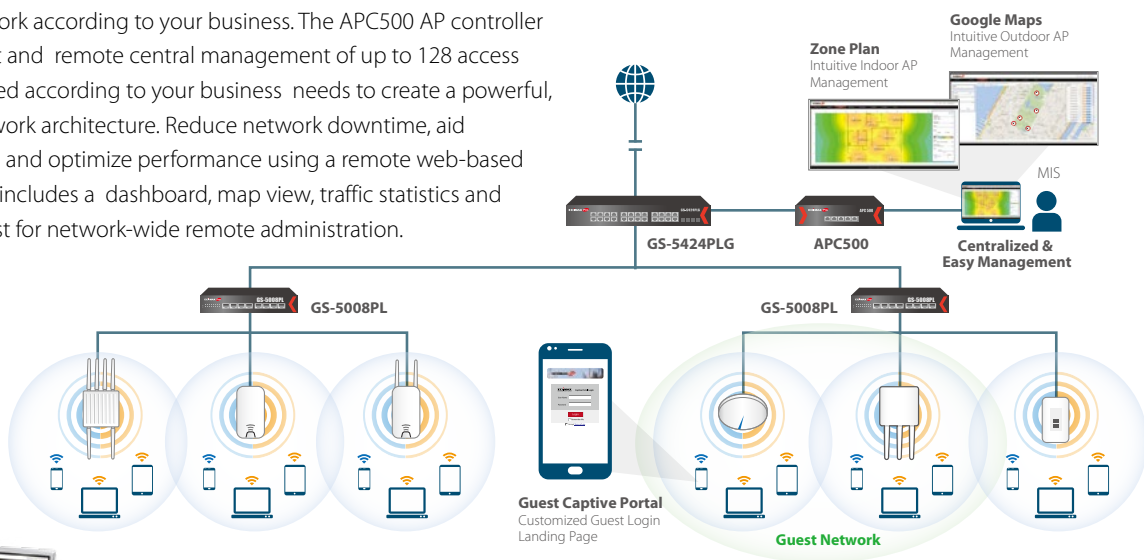
Central Network Management Suite

Edimax Pro NMS (Network Management Suite) is a web-based wireless network management system built-in Edimax Pro access point (CAP, WAP series) and AP Controller (APC500).

- **Expanded & Flexible Management**: Free, integrated controller software NMS for up to 8/16 (CAP/WAP) or128 (APC500) APs
- **Free of License Charge**: No additional AP license required
- **Multiple SSIDs**: Up to 32 SSIDs (16 x 2.4GHz & 16 x 5GHz) per access point
- **Zones Plan & Google Maps**: Intuitive indoor/outdoor AP management
- **Guest Captive Portal**: Customized login landing page
- **Guest Ticket**: Hotspot dynamic account to allow temporary Wi-Fi access
- **SMS Authentication**: SMS login (project base)
- **Built-in RADIUS (AAA)**: Supports authentication up to 512 user accounts
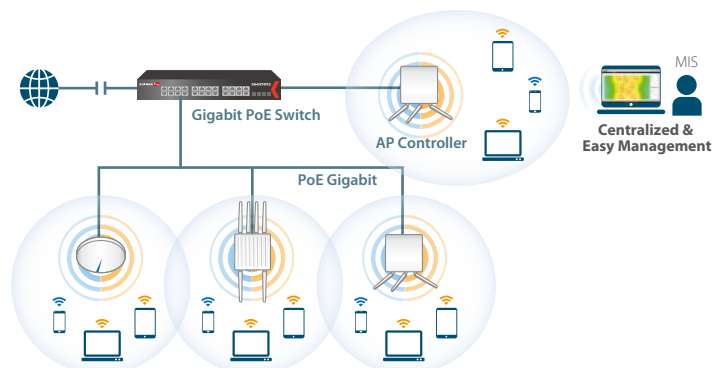- **Supported AP Models**: Edimax Pro CAP, WAP, OAP & IAP Series
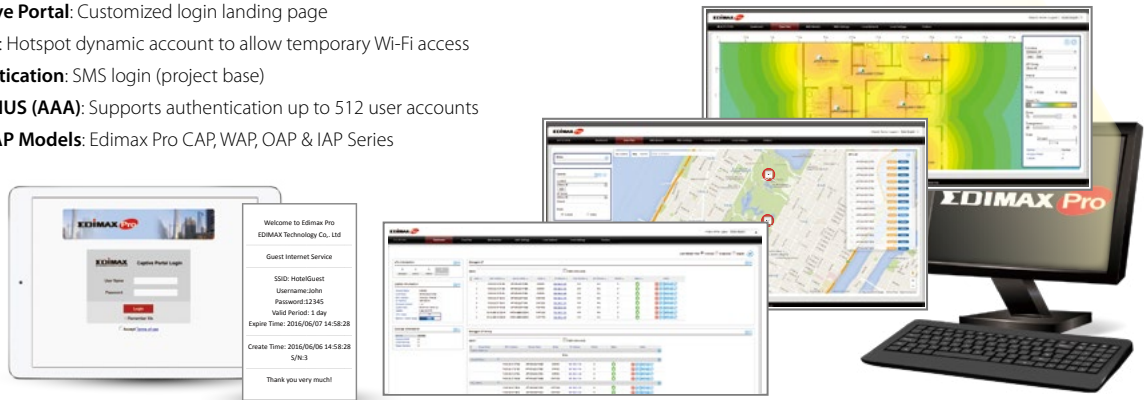
Dedicated Access Point Controller (APC500) for SMBs/SMEs

Scale your network according to your business. The APC500 AP controller enables efficient and remote central management of up to 128 access points, configured according to your business needs to create a powerful, easy to use network architecture. Reduce network downtime, aid troubleshooting and optimize performance using a remote web-based interface which includes a dashboard, map view, traffic statistics and wireless client list for network-wide remote administration.

Google Maps Intuitive Outdoor AP Management

Zone Plan Intuitive Indoor AP Management

MIS

Centralized & Easy Management

GS-5424PLG APC500

GS-5008PL GS-5008PL

Guest Captive Portal Customized Guest Login Landing Page
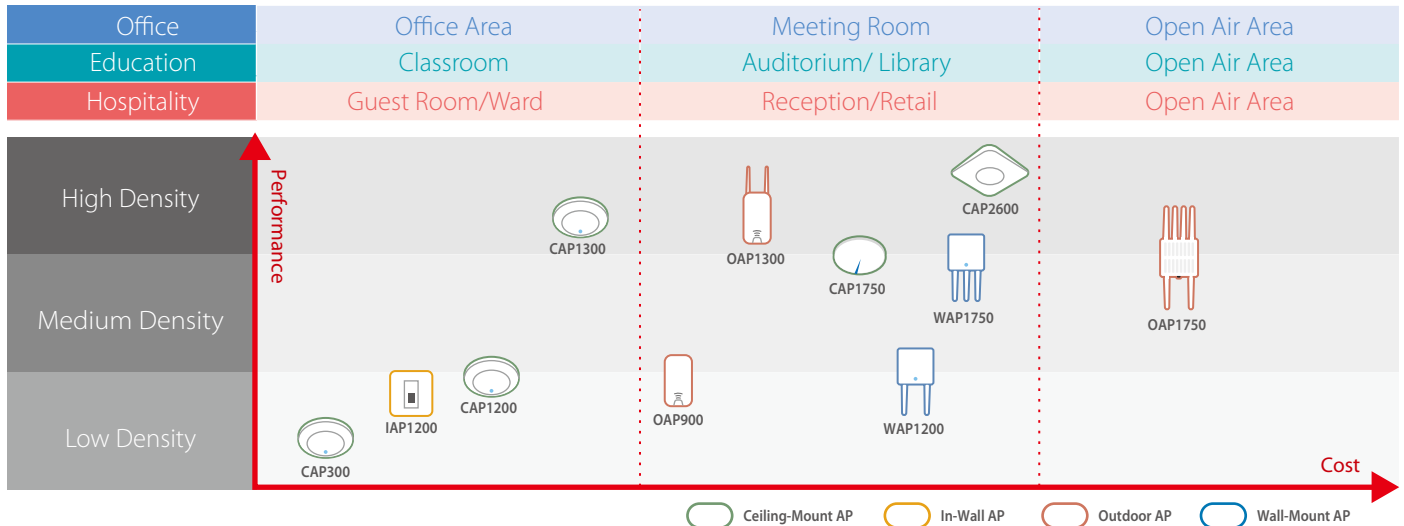
Guest Network

Built-in Network Management Suite (NMS) for Small Offices

Edimax Pro CAP and WAP series access points include the free Edimax Pro Network Management Suite (NMS) to support an AP array architecture, which enables the central management of a group of access points. NMS can be installed on one access point and support up to 8/16 Edimax Pro access points with no additional wireless controller required, reducing costs and facilitating efficient remote AP management. Access points can be deployed and configured according to requirements, creating a powerful network architecture which can be easily managed and expanded in the future, with an easy to use interface and a full range of functionality for network administrators.

MIS

Gigabit PoE Switch **AP Controller** **Centralized & Easy Management**

PoE Gigabit

15

Access Point & Solution Matrix

Office	Office Area	Meeting Room	Open Air Area
Education	Classroom	Auditorium/ Library	Open Air Area
Hospitality	Guest Room/Ward	Reception/Retail	Open Air Area

Performance / Cost matrix:

- **High Density:** CAP1300, OAP1300, CAP2600
- **Medium Density:** CAP1750, WAP1750, OAP1750
- **Low Density:** CAP300, IAP1200, CAP1200, OAP900, WAP1200

Legend: Ceiling-Mount AP · In-Wall AP · Outdoor AP · Wall-Mount AP

Ceiling-Mount AP

CAP2600 (Coming Soon) — MU MIMO — 2.5GbE
- 4T4R, 800Mbps+1733Mbps
- MU-MIMO 4x4:4
- 1 x 2.5GbE, 1 x GbE
- 802.3at PoE Supported
- UR94-5VB Flammability Rating

CAP1750 (HOT) — reddot design award winner 2015 · TAIWAN EXCELLENCE 2016
- 3T3R, 450Mbps+1300Mbps
- 802.3at PoE Supported
- UL94-5VB Flammability Rating

CAP1300 (Coming Soon) — MU MIMO — 11ac Wave 2
- 2T2R, 400Mbps+867Mbps
- MU-MIMO 2x2:2
- 802.3af PoE Supported
- UL94-5VB Flammability Rating

CAP1200 (HOT) — ICT Month Innovative Elite 2014 Golden Awards · TAIWAN EXCELLENCE 2014
- 2T2R, 300Mbps+867Mbps
- 802.3af PoE Supported
- UL94-5VB Flammability Rating

CAP300
- 2T2R, 300Mbps
- 802.3af PoE Supported
- UL94-5VB Flammability Rating

In-Wall AP

IAP1200 (New) — EU / US
- 300Mbps+867Mbps
- 802.3af PoE Supported
- 2 x Giga, 2 x RJ11

Wall-Mount AP

WAP1750 (HOT)
- 3T3R, 450Mbps+1300Mbps
- 802.3at PoE Supported (PoE Out 802.3af)
- Optional Security Cover (SC1000)

WAP1200
- 2T2R, 300Mbps+867Mbps
- 802.3at PoE Supported
- Optional Security Cover (SC1000)

Outdoor AP

OAP1750 (HOT)
- 3T3R, 450Mbps+1300Mbps
- 802.3at PoE Supported
- IP67 Weatherproof

OAP1300 (Coming Soon) — MU MIMO — 11ac Wave 2
- 2T2R, 400Mbps+867Mbps
- 2x2 Dual-Band OMNI Antenna
- 802.3at PoE Supported (PoE Out 802.3af)
- IP55 Weatherproof

OAP900 (HOT) — TAIWAN EXCELLENCE 2017
- 2T2R, 900Mbps
- 2x2 14dBi Patch Antenna
- Passive PoE Supported
- IP55 Weatherproof

AP Controller

APC500 (HOT)
- Manages up to 128 Edimax Pro APs
- Built-in RADIUS (AAA) for User & Guest Accounts
- Batch Setup/Configuration

Web Smart Switch

XGS-5208PLG (Coming Soon) — 2.5GbE
- 8 x 2.5 Giga, 2 x Mini GBIC/SFP+ Slots
- 802.3af/at PoE Supported
- 48V DC with 30W Output Per Port (300W Total Power Budget)

GS-5424PLG
- 24 x Giga, 4 x Mini-GBIC/SFP Slots
- 802.3af/at PoE Supported
- 48V DC with 30W Output Per Port (400W Total Power Budget)

GS-5008PL
- 8 x Giga
- 802.3af/at PoE Supported
- 48V DC with 30W Output Per Port (150W Total Power Budget)

XGS-5008 (New) — 10GbE
- 8 x 10 Giga
- External Power Adapter
- 160 Gbs Switching Capability

◎ Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.

Switch Product

PoE+ Web Smart

2.5 GbE

XGS-5208PLG
- 8 x 2.5 Giga PoE+
- 2 x SFP+ Slot
- 240W

2.5 GbE

Gigabit Ethernet

GS-5424PLG
- 24 Giga PoE+
- 4 x SFP Slot
- 330W

GS-5008PL
- 8 x Giga PoE+
- 130W

Fast Ethernet

ES-5224P
- 24 FE PoE+
- 2 x Giga Combo
- 330W

ES-5216P
- 24 x FE (16 FE PoE+)
- 2 x Giga Combo
- 220W

ES-5208P
- 8 x FE PoE+
- 2 x Giga Combo
- 130W

Web Smart

10 GbE

XGS-5008
- 8 x 10 Giga

10 GbE

Gigabit Ethernet

ES-5240G+ V3
- 24 x Giga
- 4 x SFP Slot

ES-5260G+ V3
- 16 x Giga
- 4 x SFP Slot

ES-5226RS+
- 24 x FE
- 2 x Giga Combo

PoE+ Unmanaged

Gigabit Ethernet

GS-1008P V2
- 8 x Giga PoE+
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 130W

GS-1008PL
- 8 x Giga PoE+
- 70W

GS-1008PH V2
- 8 x Giga (4 x PoE+)
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 70W

GS-1008PHE V2
- 8 x Giga (4 x PoE+)
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 60W

Fast Ethernet

ES-1008P V2
- 8 x FE PoE+
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 130W

ES-1008PL
- 8 x FE PoE+
- 70W

ES-1008PH V2
- 8 x FE (4 x PoE+)
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 70W

ES-1008PHE V2
- 8 x FE (4 x PoE+)
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 60W

ES-5104PH V2
- 5 x FE (4 x PoE+)
- PoE Extended up to 200M
- Hardware VLAN/QoS
- 60W

Unmanaged

Gigabit Ethernet

GS-1026 V2
- 24 x Giga
- 2 x SFP Slot

GS-1016
- 16 x Giga

Fast Ethernet

ES-1024
- 24 x FE

ES-1016
- 16 x FE

*W: Total PoE Power Budget

PoE Switch Application

PoE Managed Switch

Gateway · xDSL Modem · Internet

Wireless AP with Gigabit LAN Port

PoE Wireless Access Point

Gigabit Switch · Printer Server · Data Server

Public/Server Groups

PoE IP Camera

PTZ/Speed Dome IP Camera · Video Phone · **30W** · High Power Wireless AP

PoE Managed Switch

IP Phone · **15W** · IP Camera · Wireless AP

- 2.4GHz — PoE Gigabit Ethernet
- 5GHz — Gigabit Ethernet
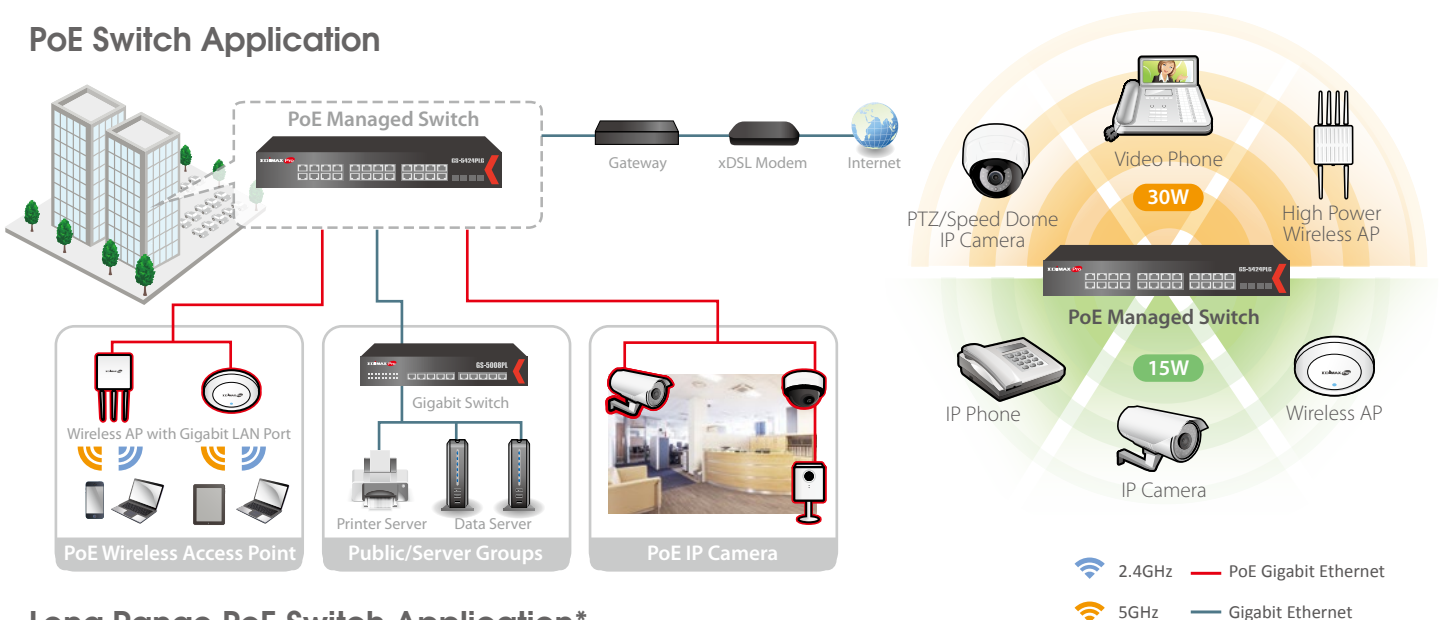
Long Range PoE Switch Application*

Standard PoE Mode
- 100M
- 100BASE-TX UTP with PoE
- PoE Network Camera
- PoE Wireless AP

Extend PoE Mode
- 10BASE-TX UTP with PoE
- 200M
- PoE Network Camera
- PoE Wireless AP
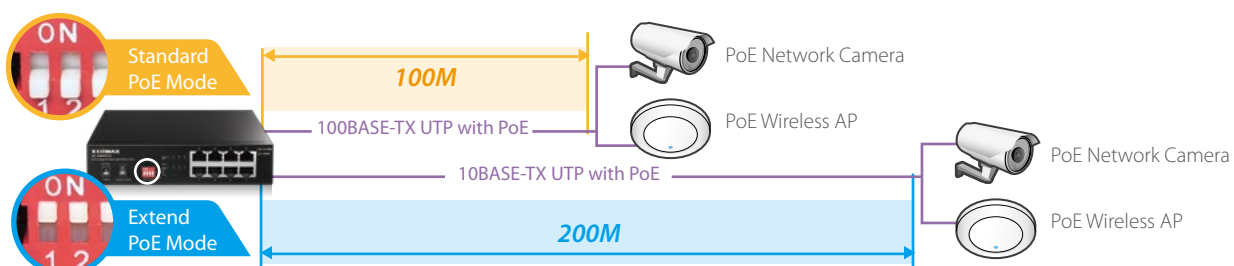
*GS-1008P V2, GS-1008PH V2, GS-1008PHE V2, ES-1008P V2, ES-1008PH V2, ES-1008PHE V2 and ES-5104PH V2 only.

Ceiling-Mount & In-Wall Access Point

Wall-Mount & Outdoor Access Point

Model	CAP2600	CAP1750	CAP1300	CAP1200	CAP300	IAP1200
Description	4x4 AC Dual-Band Ceiling Mount PoE	3x3 AC Dual-Band Ceiling Mount PoE	2x2 AC Dual-Band Ceiling Mount PoE	2x2 AC Dual-Band Ceiling Mount PoE	2x2 N Ceiling Mount PoE	2x2 AC Dual-Band In-Wall PoE
Segment	High	High	High	Middle	Entry	Middle
Hardware						
LAN Interface	2.5 Giga x 1, Giga x 1	Giga x 1	Giga x 2	Giga x 1	Giga x 1	Giga x 2, RJ11 x 2
USB	-	USB 2.0 x 1 (Optional Ethernet Adapter for 2nd LAN)	-	-	-	-
PoE	802.3at	802.3at	802.3af (Support 802.3at)	802.3af (Support 802.3at)	802.3af (Support 802.3at)	802.3af (Support 802.3at)
Antenna	Type: 8 x Built-in PIFA (4 x 2.4 GHz, 4 x 5 GHz) / Gain: 3 dBi (2.4 GHz), 5 dBi (5 GHz) max.	Type: 6 x Built-in PIFA (3 x 2.4 GHz, 3 x 5 GHz) / Gain: 4.38 dBi (2.4 GHz), 5.34 dBi (5 GHz) max.	Type: 4 x Built-in PIFA (2 x 2.4 GHz, 2 x 5 GHz) / Gain: 4 dBi (2.4 GHz), 5 dBi (5 GHz) max.	Type: 4 x Built-in PIFA (2 x 2.4 GHz, 2 x 5 GHz) / Gain: 2.82 dBi (2.4 GHz), 4 dBi (5 GHz) max.	Type: 2 x Built-in PIFA / Gain: 2.82dBi max.	Type: 2 x Built-in PIFA / Gain: 2.14 dBi (2.4 GHz), 3.8 dBi (5 GHz) max.
Dimensions (LxWxH)	220 x 220 x 44 mm	208(D) x 31.5(H) mm	176(D) x 32(H)mm	176(D) x 32(H) mm	176(D) x 32(H)mm	Faceplate Set: 70 x 115 x17.9 mm (US-Type) / Faceplate Set: 86 x 86 x17 mm (EU-Type) / Stand/Mounting Bracket: 48.8 x 74 x 38.4 mm
Power Consumption (Full Loading) — Power Adapter	12V, 2.5A	12V, 2A	12V, 1A	12V, 1A	12V, 1A	-
Power Consumption (Full Loading) — PoE	25.5W	15W; 19.2W (With USB)	11W	11W	6.5W	8W
Wireless						
No. of Radio	2	2	2	2	1	2
Number of SSID (2.4G+5G)	16+16	16+16	16+16	16+16	16+0	16+16
Performance						
Maximum Data Speed	800+1733Mbps	450+1300Mbps	400+867Mbps	300+867Mbps	300Mbps	300+867Mbps
Concurrent Clients	Up to 150 Pre Radio	Up to 50 Pre Radio	Up to 100 Pre Radio	Up to 50 Pre Radio	Up to 50 Pre Radio	Up to 50 Pre Radio
802.11 r/k Roaming	v	v	v	v (only 5G)	-	-
Beamforming	v	v	v	-	-	-
Security						
Encryption	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2
Rogue AP Detection (w/NMS)	v	v	v	v	v	v
Software						
802.1q VLAN	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)
Spanning Tree	RSTP	RSTP	RSTP	RSTP	RSTP	RSTP
Management						
Deployment	Standalone: AP mode / Master AP mode: Can manage 16 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Master AP mode: Can manage 16 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Master AP mode: Can manage 8 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Master AP mode: Can manage 8 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Master AP mode: Can manage 8 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP
Configuration						
Http/Https	Http/Https	Http/Https	Http/Https	Http/Https	Http/Https	Http/Https
SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3
CLI (Telnet, SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)
Radius Server	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Auto-Channel	v	v	v	v	v	v
Private MIB	v	v	v	v	v	v

Model	WAP1750	WAP1200	OAP1750	OAP1300	OAP900
Description	3x3 AC Dual-Band Wall Mount PoE	2x2 AC Dual-Band Wall Mount PoE	3x3 AC Dual-Band Outdoor PoE	2x2 AC Outdoor PoE	2x2 AC Outdoor PoE
Segment	High	Middle	BaseStation	CPE/AP	CPE/AP
Hardware					
LAN Interface	Giga x 2	Giga x 2	Giga x 1	Giga x 2	Giga x 2
USB	-	-	-	-	-
PoE	802.3at(In)/ 802.3af(Out) 10W	802.3at	802.3at	802.3at, (LAN1)PoE in (LAN2)PoE out	(LAN1)Passive PoE in (LAN2)Passive PoE out
Antenna	Type: 3 x External / Gain: 2 dBi (2.4 GHz), 2 dBi (5 GHz)	Type: 2 x External / Gain: 2 dBi (2.4 GHz), 2 dBi (5 GHz)	Type: 6 x External / Gain: 4 dBi (2.4 GHz), 6 dBi (5 GHz) max.	Type: 2 x External / Gain: 5 dBi (2.4 GHz), 5 dBi (5 GHz) max.	Type: Internal Patch Antenna, SMA Connector x 2 for External Antennas / Gain: 15 dBi (5 GHz)
Dimensions (LxWxH)	183 x 183 x 36 mm	183 x 183 x 36 mm	260(H) x 250(W) x 95(L) mm	271.8x 120.9 x 35 mm	271.8x 120.9 x 35 mm
Power Consumption (Full Loading) — Power Adapter	12V, 4A	12V, 2.5A	-	-	-
Power Consumption (Full Loading) — PoE	15W (Exclude PoE-Out)	12W	-	15W	10.6W (Passive PoE)
Wireless					
No. of Radio	2	2	2	2	1
Number of SSID (2.4G+5G)	16+16	16+16	16+16	16+16	0+16
Performance					
Maximum Data Speed	450+1300Mbps	300+867Mbps	450+1300Mbps	400+867Mbps	900Mbps
Concurrent Clients	Up to 50 Pre Radio	Up to 50 Pre Radio	Up to 50 Pre Radio	Up to 100 Pre Radio	Up to 50 Pre Radio
802.11 r/k Roaming	v	v	v	v	v
Beamforming	-	-	v	v	v
Security					
Encryption	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2	WEP/WPA/WPA2
Rogue AP Detection (w/NMS)	v	v	v	v	v
Software					
802.1q VLAN	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)	v (VID=1-4095)
Spanning Tree	RSTP	RSTP	RSTP	RSTP	RSTP
Management					
Deployment	Standalone: AP mode / Master AP mode: Can manage 16 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Master AP mode: Can manage 16 Edimax Pro APs / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP	Standalone: AP mode / Managed AP mode: Be managed by Edimax Pro AP Controller (APC500) or Edimax Pro Master AP
Configuration					
Http/Https	Http/Https	Http/Https	Http/Https	Http/Https	Http/Https
SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3	SNMP v1, v2c, v3
CLI (Telnet, SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)	CLI (Telnet,SSH)
Radius Server	Built-in	Built-in	Built-in	Built-in	Built-in
Auto-Channel	v	v	v	v	v
Private MIB	v	v	v	v	v

PoE Web Smart Switch

Wireless AP Controller   Network Management Suite

Model	APC500	NMS (CAP/WAP)
H/W	Standalone	AP
License	FREE	FREE
Segment	Middle	Entry
Management		
Managed Edimax Pro AP #	1-128	1 - 8/16
Traffic Statistics	Network Traffic/CPU Loading/Memory Usage	Network Traffic/CPU Loading/Memory Usage
Multiple Firmware Upgrade	v	v
Deployment		
AP Planning	v	v
Google MAP Support	v	v
802.11 r/k Roaming	v	v
Radio Resource Management		
Client RSSI Threshold	v	v
Dynamic Channel Selection	v	v
Auto Pilot (Auto Channel/Power)	v	v
Security		
MAC Filtering	v	v
Rogue AP Detection	v	v
Wireless L2 Isolation	v	v
Access Control	v	v
Captive Portal (Internal & External)	v	v
Guest Account	v	v
RADIUS Authentication/Accounting	v / v	v / v
Wireless QoS		
AP Load Balancing	*	*
WLAN Station Bandwidth Limiting (Per-SSID)	v	v
Diagnostic Tool		
Ping/Trace Route	v	v
High Availability		
Primary/Secondary Controller Support	*	*
Software Function Items		
Active AP	128	8/16
AP Groups	32	8/16
WLAN SSIDs	150	50
WLAN Groups	512	8/16
Guest Network SSIDs	32	8/16
Guest Network Group	100	50
Hardware		
Interface	1 x Giga WAN Port (LAN 0), 3 x Giga LAN Port, 1 x RJ45 Console	No Hardware
Flash	8GB for Log Storage	
Dimensions (L x W x H)	265 x 178 x 44mm	
Weight	1030g	

Model	XGS-5208PLG	GS-5424PLG	GS-5008PL	ES-5224P	ES-5216P	ES-5208P
Description	8-Port 2.5 Gigabit PoE+ with 2 SFP+ Slots Web Smart Switch	24-Port Gigabit PoE+ with 4 SFP Slots Web Smart Switch	8-Port Gigabit PoE+ Web Smart Switch	24-Port Fase Ethernet PoE+ with 2 Giga Combo Ports Web Smart Switch	16-Port Fase Ethernet PoE+ with 2 Giga Combo Ports Web Smart Switch	8-Port Fase Ethernet PoE+ with 2 Giga Combo Ports Web Smart Switch
Port/Module Slots						
10/100Base-TX	-	-	-	24	24	8
10/100/1000Base-T	-	24	8	-	-	-
SFP/SFP+ Slot	2 x SFP+	4 x SFP	-	-	-	-
1000Base Combo RJ-45/SFP	-	-	-	2	2	2
2.5G/10G Base-T	8 x 2.5G	-	-	-	-	-
PoE Port	8	24	8	24	16	8
PoE Power Management						
IEEE 802.3af PoE (15.4W/P)	v	v	v	v	v	v
IEEE 802.3at PoE (30W/P)	v	v	v	v	v	v
Power Budget Management UI	v	v	v	v	v	v
PD Power On/Off Control	v	v	v	v	v	v
PD Classification	v	v	v	v	v	v
Overloading Protecting	v	v	v	v	v	v
Power Consumption without PD Connection	28.2W (TBD)	36W	12W	36W	36W	36W
Total PoE Power Budget	240W	330W	130W	330W	220W	130W
Performance						
Packet Buffer, Bytes	16Mb	500K	144K	352K	352K	352K
MAC Address	32K	8K	4K	4K	4K	4K
Jumbo Frame, Bytes	9.6K	9.6K	9.6K	-	-	4K
Management						
Web-Based/SNMP	Web-Based	Web-Based	Web-Based	Web-Based	Web-Based	Web-Based
Features						
IEEE802.1q VLAN	v	v	v	v	v	v
IEEE802.1d/w sTP/RSTP	v / -	v / v	- / -	v / v	v / v	v / v
IEEE802.3az Energy Efficient Ethernet	v	-	v	v	v	v
Port-Based/Tag-Based VLAN	10/32	28/200	4/8	26/32	26/32	26/32
Trunking Group	6	8	1	3	3	3
LACP	v	v	v	v	v	v
QoS/Priority Queues	v / 8	v / 8	v / 4	v / 2	v / 4	v / 4
IGMP Snooping	v	v	v	v	v	v
Storm Control	v	v	v	v	v	v
Port Mirroring	v	v	v	v	v	v
Loopback Detection	v	v	v	v	v	v
Fan-Less	v	v	v	-	-	-
Physical						
Power Type	Internal Power	Internal Power	Internal Power	Internal Power	Internal Power	Internal Power
Dimensions (L x W x H)	265 x 184 x 44 mm	441 x 310 x 44 mm	265 x 133 x 42 mm	441 x 310 x 44 mm	441 x 310 x 44 mm	441 x 230 x 44 mm
Mounting	v	v	v	v	v	v

* coming soon

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PoE Unmanaged Switch: Gigabit Ethernet

PoE Unmanaged Switch: Fast Ethernet

Model	GS-1008P V2	GS-1008PL	GS-1008PH V2	GS-1008PHE V2	ES-1008P V2	ES-1008PL	ES-1008PH V2	ES-1008PHE V2	ES-5104PH V2
Description	8-Port Gigabit PoE+ Switch with DIP Switch	8-Port Gigabit PoE+ Switch	8-Port Gigabit Switch with 4-Port PoE+ & DIP Switch	8-Port Gigabit Switch with 4-Port PoE+ & DIP Switch	8-Port Fast Ethernet PoE+ Switch with DIP Switch	8-Port Fast Ethernet PoE+ Switch	8-Port Fast Ethernet Switch with 4-Port PoE+ & DIP Switch	8-Port Fast Ethernet Switch with 4-Port PoE+ & DIP Switch	5-Port Fast Ethernet Switch with 4-Port PoE+ & DIP Switch
Port/Module Slots									
10/100Base-TX	-	-	-	-	8	8	8	8	5
10/100/1000Base-T	8	8	8	8	-	-	-	-	-
SFP / SFP+ Slot	-	-	-	-	-	-	-	-	-
1000Base Combo RJ-45/SFP	-	-	-	-	-	-	-	-	-
2.5G/10G Base-T	-	-	-	-	-	-	-	-	-
PoE Port	8	8	4	4	8	8	4	4	4
PoE Power Management									
IEEE 802.3af PoE (15.4W/P)	v	v	v	v	v	v	v	v	v
IEEE 802.3at PoE (30W/P)	v	v	v	v	v	v	v	v	v
Power Budget Management UI	-	-	-	-	-	-	-	-	-
PD Power On/Off Control	-	-	-	-	-	-	-	-	-
PD Classification	v	v	v	v	v	v	v	v	v
Overloading Protecting	v	v	v	v	v	v	v	v	v
Power Consumption without PD Connection	5W	5W	5W	5W	5W	5W	5W	5W	3W
Total PoE Power Budget	130W	70W	70W	60W	130W	70W	70W	60W	60W
Performance									
Packet Buffer Bytes	128K	128K	128K	128K	56K	96K	56K	56K	56K
MAC Address	2K	1K	2K	2K	1K	1K	1K	1K	1K
Jumbo Frame_Bytes	9K	9K	9K	9K	-	-	-	-	-
Management									
Web-Based/ SNMP	-	-	-	-	-	-	-	-	-
Features									
IEEE 802.1q VLAN	v (DIP Switch)	-	v (DIP Switch)	v (DIP Switch)	v (DIP Switch)	-	v (DIP Switch)	v (DIP Switch)	v (DIP Switch)
IEEE802.1d/w STP/ RSTP	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
IEEE802.3az Energy Efficient Ethernet Function	v	v	v	v	v	v	v	v	-
Port-Based/Tag-Based VLAN	-	-	-	-	-	-	-	-	-
Trunking Group	-	-	-	-	-	-	-	-	-
LACP	-	-	-	-	-	-	-	-	-
QoS/ Priority Queues	v (DIP Switch) / -	- / -	v (DIP Switch) / -	v (DIP Switch) / -	v (DIP Switch) / -	- / -	v (DIP Switch) / -	v (DIP Switch) / -	v (DIP Switch) / -
IGMP Snooping	-	-	-	-	-	-	-	-	-
Storm Control	-	-	-	-	-	-	-	-	-
Port Mirroring	-	-	-	-	-	-	-	-	-
Loopback Detection	-	-	-	-	-	-	-	-	-
Fan-less	v	v	v	v	v	v	v	v	v
Power Type	Internal Power	Internal Power	Internal Power	External Power	Internal Power	Internal Power	Internal Power	External Power	External Power
Physical									
Dimensions (LxWxH)	265 x 185 x 44 mm	265 x 185 x 44 mm	215.5 x 133 x 42 mm	165 x 118 x 39 mm	265 x 184 x 44 mm	265 x 185 x 44 mm	215.5 x 133 x 42 mm	165 x 118 x 39 mm	121 x 75 x 26 mm
Mounting	v	v	v	-	v	v	v	-	-

Web Smart Switch | Unmanaged Switch

	XGS-5008	ES-5240G+ V3	ES-5160G+ V3	ES-5226RS+	GS-1026 V2	GS-1016	ES-1024	ES-1016
Description	8-Port 10GbE Web Smart Switch	24-Port Gigabit Web Smart Switch with 4 SFP Slots	16-Port Gigabit Web Smart Switch with 4 SFP Slots	24-Port Fast Ethernet Web Smart Switch with 2 Gigabit Combo Ports	24-Port Gigabit with 2 SFP Slots Rack-Mount Switch	16-Port Gigabit Rack-Mount Switch	24-Port Fast Ethernet Rack-Mount Switch	16-Port Fast Ethernet Rack-Mount Switch
Port/Module Slots								
10/100Base-TX	-	-	-	24	-	-	24	16
10/100/1000Base-T	-	24	16	-	24	16	-	-
SFP/SFP+ Slot	-	-	-	-	2 x SFP	-	-	-
1000Base Combo RJ-45/SFP	-	4	4	2	-	-	-	-
2.5G/ 10G Base-T	8 x 10G	-	-	-	-	-	-	-
PoE Port	-	-	-	-	-	-	-	-
PoE Power Management								
IEEE 802.3af PoE (15.4W/P)	-	-	-	-	-	-	-	-
IEEE 802.3at PoE (30W/P)	-	-	-	-	-	-	-	-
Power Budget Management UI	-	-	-	-	-	-	-	-
PD Power On/Off Control	-	-	-	-	-	-	-	-
PD Classification	-	-	-	-	-	-	-	-
Overloading Protecting	-	-	-	-	-	-	-	-
Power Consumption without PD Connection	-	-	-	-	-	-	-	-
Total PoE Power Budget	-	-	-	-	-	-	-	-
Performance								
Packet Buffer, Bytes	2M byte	500K	340K	512K	512K	256K	256K	256K
MAC Address	16K	8K	8K	4K	8K	8K	8K	8K
Jumbo Frame, Bytes	9.6K	9.6K	9.6K	-	9K	9K	-	-
Management								
Web-Based/ SNMP	Web-Based	Web-Based/SNMP V1/V2C	Web-Based/SNMP V1/V2C	Web-Based/SNMP V1/V2C	-	-	-	-
Features								
IEEE802.1q VLAN	v	v	v	v	-	-	-	-
IEEE802.1d/w STP/ RSTP	-/-	v/v	v/v	v/v	-/-	-/-	-/-	-/-
IEEE802.3az Energy Efficient Ethernet Function	v	v	v	v	v	v	v	v
Port-Based/Tag-Based VLAN	-/8	v/16	v/16	v/32	-	-	-	-
Trunking Group	4	8	8	3	-	-	-	-
LACP	-	v	v	v	-	-	-	-
QoS/ Priority Queues	v/8	v/8	v/8	v/2	-	-	-	-
IGMP Snooping	v	v	v	-	-	-	-	-
Storm Control	v	v	v	v	-	-	-	-
Port Mirroring	-	v	v	v	-	-	-	-
Loopback Detection	v	-	-	-	-	-	-	-
Fan-Less	-	-	-	-	v	v	v	v
Power Type	External Power	Internal Power	Internal Power	Internal Power	Internal Power	Internal Power	Internal Power	External Power
Physical								
Dimensions (LxWxH)	265 x 185 x 44 mm	440 x 220 x 44 mm	440 x 220 x 44 mm	440 x120 x 44 mm	441 x 131 x 44 mm	441 x 131 x 44 mm	441 x 131 x 44 mm	441 x 131 x 44 mm
Mounting	v	v	v	-	v	v	v	-

IEEE 802.3at Gigabit PoE+ Extender

GP-101ET

- 802.11af/at PoE+ supported
- 10/100/1000Mbps LAN ports
- Extends PoE connection for another 100 meters (328 ft.)

IEEE 802.3at Gigabit PoE+ Injector

GP-101IT

- 802.11af/at PoE+ supported
- 10/100/1000Mbps LAN ports
- Remote power feeding up to 100 meters (328 ft.)
- Supports PoE PSE up to 30W

IEEE 802.3at Gigabit PoE Splitter

GP-101ST

- 802.11af/at PoE+ supported
- 10/100/1000 Mbps LAN ports
- Adjustable switch for 5V, 9V or 12V DC output power
- Supplies non-PoE device power up to 25W

SFP Transceiver

1G 1000Base-T/SX/LX SFP Modules

MG-1000 Series

- IEEE 802.3z Gigabit Ethernet over fiber standard
- Supports full-duplex with LC type connector
- Plug-and-Play & Hot Pluggable

1G 1000Base-T Copper Module

MG-1000AT *

10G 1000Base-SX/LX SFP+ Modules

MG-10G Series

- IEEE 802.3ae 10 Gigabit Ethernet over fiber standard
- Supports full-duplex with LC type connector
- Plug-and-Play & Hot Pluggable

*Industrial Grade SFP, supports robust design for enhanced reliability in industrial grade, operating temperature: -40°C~85°C

Model Number	Wavelength	Connector Type	Media	Power (dBm)	Sensitivity	Power Budget	Distance	Application
MG-1000AMA V2	850nm	LC	MMF	-3 ~ -10	-20 dBm	8.2 dB	550m	Multi-mode Fiber
MG-1000AMAI*	850nm	LC	MMF	-3 ~ -10	-20 dBm	8.2 dB	550m	Multi-mode Fiber
MG-1000AMB V2	1310nm	LC	MMF	0 ~ -10	-20 dBm	10.0 dB	2km	Multi-mode Fiber
MG-1000AS1 V2	1310nm	LC	SMF	-3 ~ -9.5	-21 dBm	10.5 dB	10km	Single-mode Fiber
MG-1000AS1I*	1310nm	LC	SMF	-3 ~ -9.5	-21 dBm	10.5 dB	10km	Single-mode Fiber
MG-1000AS3 V2	1310nm	LC	SMF	-3 ~ -9.5	-21 dBm	10.5 dB	30km	Single-mode Fiber
MG-1000PU1 V2	T1310/R1550	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-1000PU1I*	T1310/R1550	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-1000PD1 V2	T1550/R1310	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-1000PD1I*	T1550/R1310	LC	SMF	-3 ~ -9	-23 dBm	12.0 dB	10km	Single-mode Fiber
MG-10GAMA	850nm	LC	MMF	-1 ~ -7	-9.9 dBm	8.2 dB	300m	Multi-mode Fiber
MG-10GAS1	1310nm	LC	SMF	0 ~ -10	-10 dBm	10.0 dB	10km	Single-mode Fiber

(Gigabit / 10 GbE)

Media Converter

10/100/1000Base-T to 1000Base-SX/LX Media Converter

ET-913+ V2 Series

- Compliant with IEEE 802.3 10Base-T, IEEE802.3u 100Base-TX , IEEE 802.3ab 1000Base-T and IEEE 802.3z 1000Base-SX/LX Standards
- Supports Half/Full–Duplex, Auto-MDI/MDI-X and Auto-Negotiation
- Supports DIP switch and LFP function

10/100Base-TX to 10/100Base-FX Media Converter

ET-912+ Series

- Compliant with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX/100Base-FX Standards
- Supports Half/Full–Duplex, Auto-MDI/MDI-X and Auto-Negotiation
- Supports DIP switch for fiber full/half duplex setting

Model Number	Wavelength	Connector Type	Media	Power (dBm)	Sensitivity	Power Budget	Distance	Application
ET-913MSC+ V2	850nm	SC	MMF	-9.5 ~ -4	-18 dBm	8.5 dB	220/550m	Multi-mode Fiber
ET-9123SC1+ V2	1310nm	SC	SMF	-9.5 ~ -3	-20 dBm	10.5 dB	10m	Single-mode Fiber
ET-913SC2+ V2	1310nm	SC	SMF	-9.5 ~ -3	-20 dBm	10.5 dB	20km	Single-mode Fiber
ET-913SC3+ V2	1310nm	SC	SMF	-9.5 ~ -3	-20 dBm	10.5 dB	30km	Single-mode Fiber
ET-913SC5+ V2	1310nm	SC	SMF	-4 ~ +1	-23 dBm	19 dB	50km	Single-mode Fiber
ET-913SC6+ V2	1550nm	SC	SMF	0 ~ +5	-23 dBm	23 dB	60km	Single-mode Fiber
ET-913SC8+ V2	1550nm	SC	SMF	0 ~ +5	-23 dBm	23 dB	80km	Single-mode Fiber
ET-913W2A+ V2	T1310/R1550	LC	Bidi	-9.5 ~ -3	-20 dBm	10.5 dB	20km	Bi-Directional Single-mode Fiber
ET-913W2B+ V2	T1550/R1310	LC	Bidi	-9.5 ~ -3	-20 dBm	10.5 dB	20km	Bi-Directional Single-mode Fiber
ET-913W4A+ V2	T1310/R1550	LC	Bidi	-9.5 ~ -3	-20 dBm	10.5 dB	40km	Bi-Directional Single-mode Fiber
ET-912MSC+	850/1310nm	SC	MMF	-20 ~ -14	-31 dBm	11 dB	2km	Multi-mode Fiber
ET-912MST+	850/1310nm	ST	MMF	-20 ~ -14	-31 dBm	11 dB	2km	Multi-mode Fiber
ET-912SSC3+	1310nm	SC	SMF	-15 ~ -8	-31 dBm	19 dB	30km	Single-mode Fiber
ET-912SSC4+	1310nm	SC	SMF	-5 ~ -0	-35 dBm	30 dB	40km	Single-mode Fiber
ET-912SSC6+	1310nm	SC	SMF	-5 ~ -0	-35 dBm	30 dB	60km	Single-mode Fiber
ET-912SSC8+	1550nm	SC	SMF	-5 ~ -0	-35 dBm	30 dB	80km	Single-mode Fiber
ET-912SSCA+	1550nm	SC	SMF	-5 ~ -0	-35 dBm	30 dB	100m	Single-mode Fiber
ET-912SW2A+	T1310/R1550	LC	Bidi	-15 ~ -8	-31 dBm	19 dB	20km	Bi-Directional Single-mode Fiber
ET-912SW2B+	T1550/R1310	LC	Bidi	-15 ~ -8	-31 dBm	19 dB	20km	Bi-Directional Single-mode Fiber
ET-912SW4A+	T1310/R1550	LC	Bidi	-5 ~ -0	-35 dBm	30 dB	40km	Bi-Directional Single-mode Fiber
ET-912SW4B+	T1550/R1310	LC	Bidi	-5 ~ -0	-35 dBm	30 dB	40km	Bi-Directional Single-mode Fiber

(Gigabit Ethernet / Fast Ethernet)

Media Converter

10/100Base-TX to 10/100Base-FX Media Converter

ET-913 SFP V2

- Compliant with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX/100Base-FX Standards
- Supports Half/Full–Duplex, Auto-MDI/MDI-X and Auto-Negotiation
- Supports DIP switch for fiber full/half duplex setting

10G PCI-E Adapter

10 Gigabit Ethernet SFP+ PCI Express Server Adapter

EN-9320SFP+
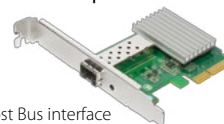
- PCI Express Gen-2 x4 Host Bus interface
- Supports IP, TCP, UDP checksum offloading
- Supports RMON statistics
- Supports 802.1Q VLAN Tagging
- Supports jumbo frames 16K

10 Gigabit Ethernet PCI Express Server Adapter

EN-9320TX-E

- PCI Express rev. 2.0 specification x4 interface
- Supports IP, TCP, UDP checksum offloading
- Supports IEEE 802.1Q VLAN ID Tagged / IEEE 802.1q QoS
- Supports jumbo frame 16K
- Supports IEEE 802.3x full-duplex flow control

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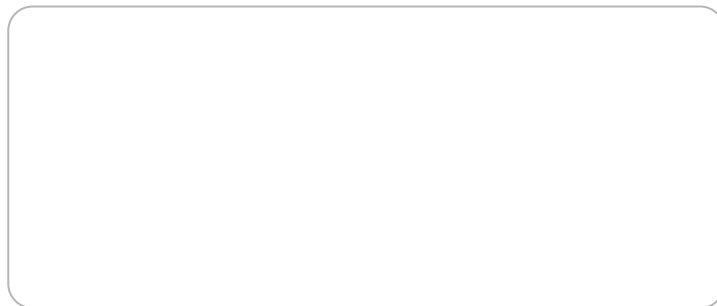
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