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www.DYMEC.com

Industrial Ethernet Switches Selection Guide

DYMEC - American Industrial Network Solutions

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Company Profile

About Us

NSA Certified Endpoint and **DYMEC** Service Control

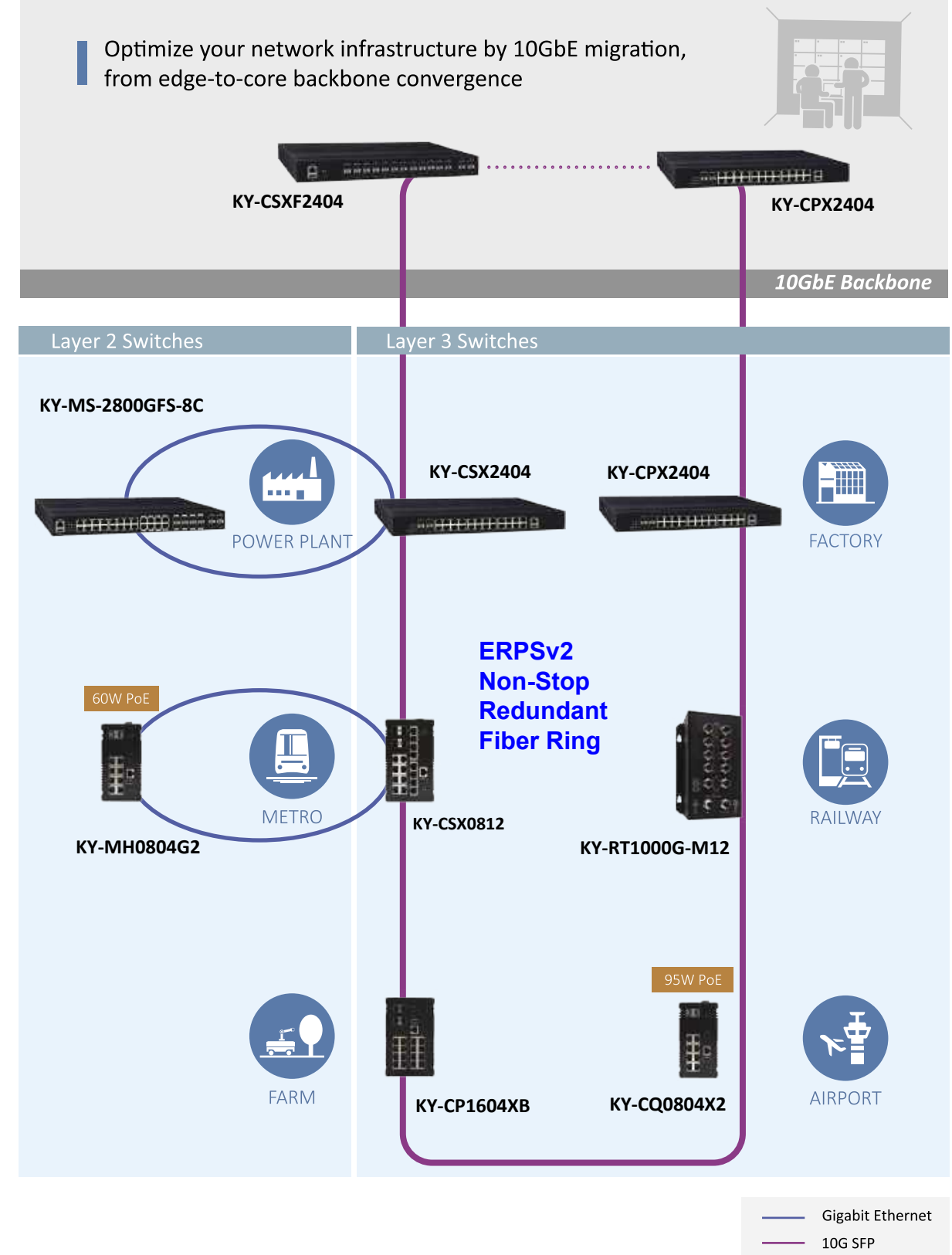
- ❖ NSA Secure Endpoint & Chassis
 - Ability to Shut Down Console Port
 - Ability to Disable Reset Button
 - Ability to Secure and Choose Remote Switch Protocols
 - HTTP
 - HTTPS
 - SSH
 - TELNET

Available on **DYMEC** Switches & Routers

DYMEC "SERVICE CONTROL" Solution

- ❖ EASY to Use GUI
- ❖ EASY Verification of Services
- ❖ Secure Chassis
- ❖ Secure Remote & Unmonitored Devices
- ❖ Absolute control of Anyone Cccessing the Device

Optimize your network infrastructure by 10GbE migration, from edge-to-core backbone convergence

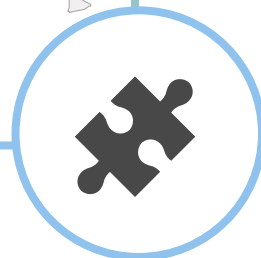


DYMEC Service

Design & Manufacture

Contact Us

Sales team guides you to the project evaluation process
+1 (816) 988-7861
Email: Sales@DYMEC.com



Manufacturing

- ISO9001& 14001 Certified
- In-house Facility
- Cost-Effective

Quality Control

- IQC
- IPQC UL
- FQC
- OQC

Engineering

- Cost Analysis
- Marketing & Competition Analysis
- Hardware & Software Customization

Security

- NSA Secure
- Service Control



Service

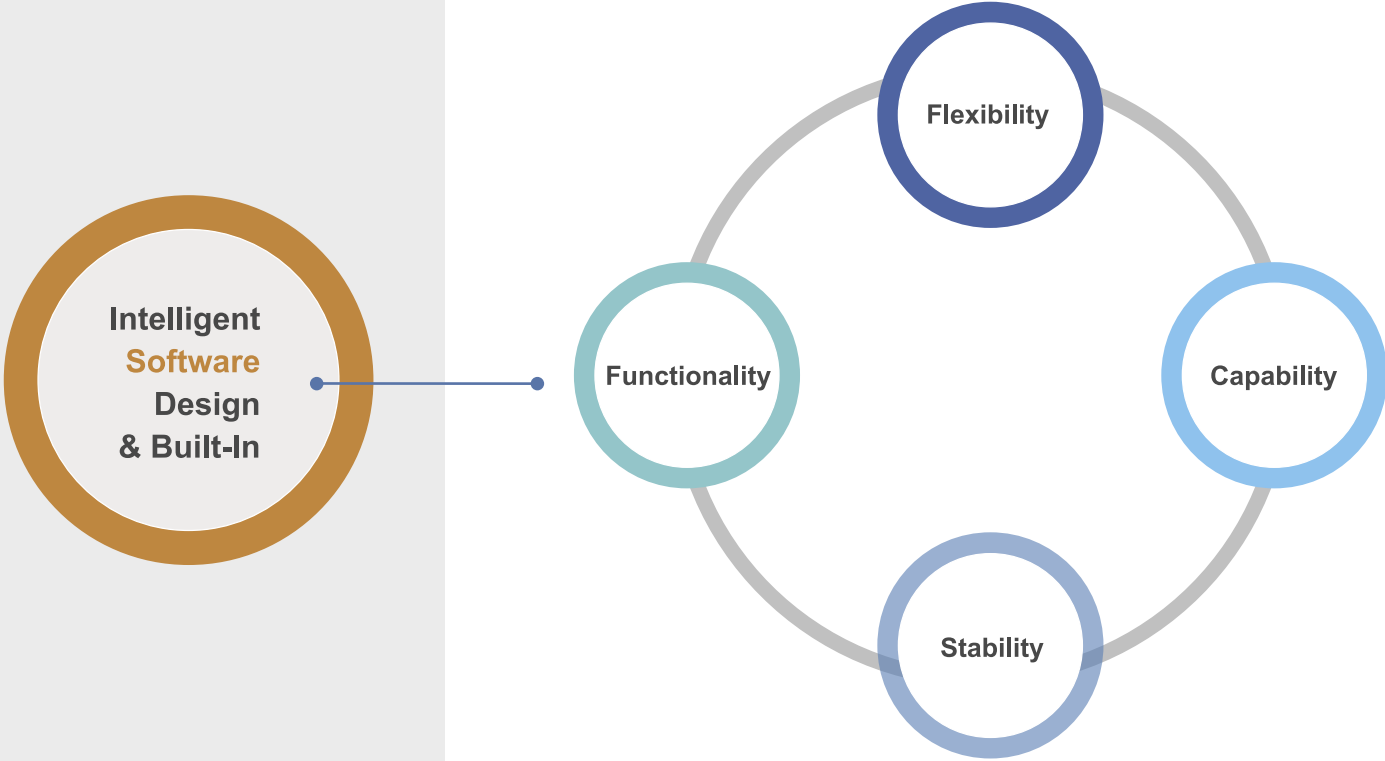
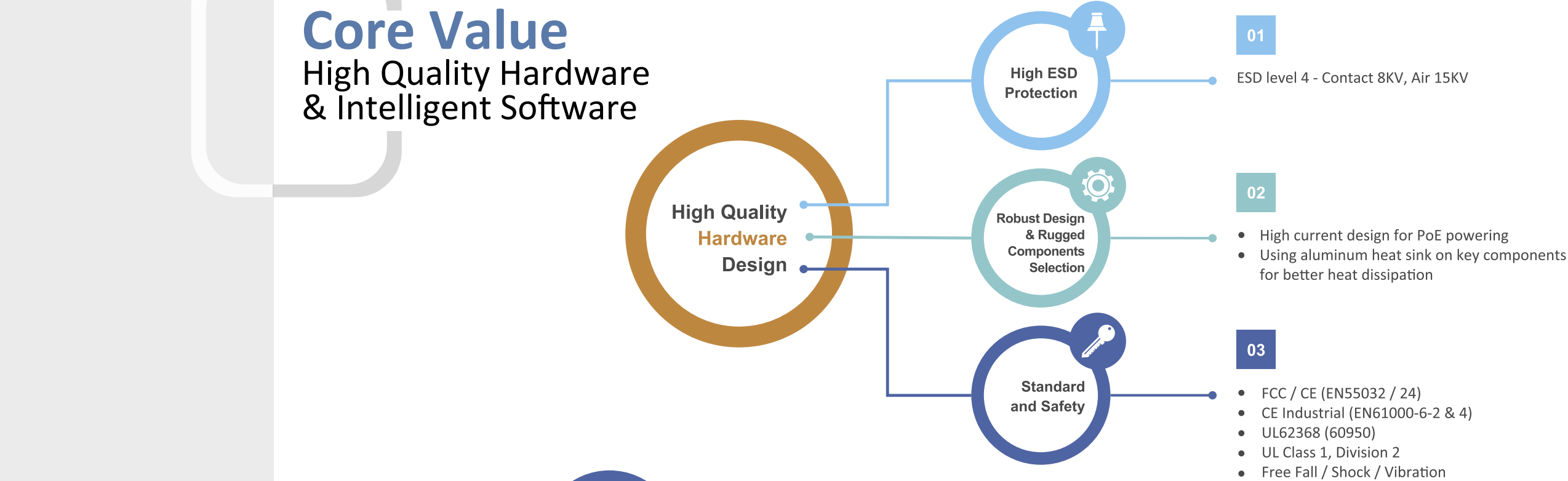
- Technical Support
- RMA Service



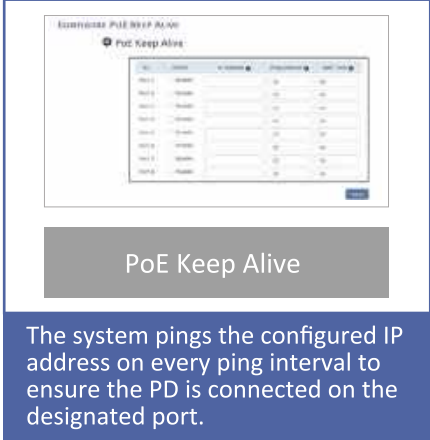
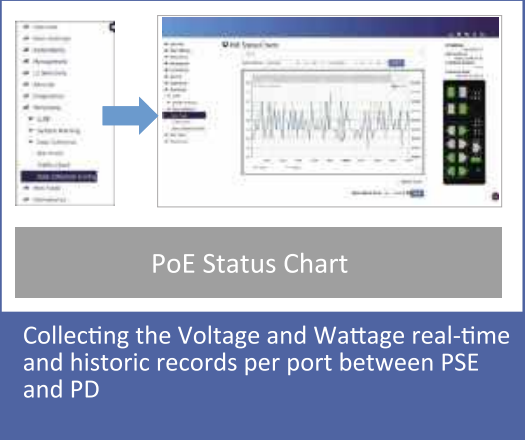
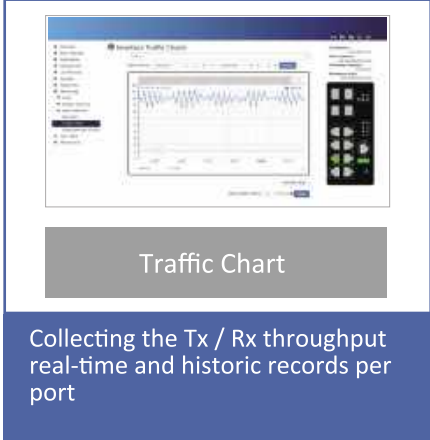
Long-Term Partnership

Core Value

High Quality Hardware & Intelligent Software



- 01 Low Latency, LIFO < 5μS for all paket size
- 02 Support HSR / PRP / 802.1CB for seamless redundancy and hardware learning of flow
- 03 Time aware per-stream IEEE802.1Qci QoS for TSN application



Product Feature Highlight

3170® Series Managed Switch
 Layer 2
 Layer 3
 Gigabit
 10 GbE
 PoE+ (IEEE802.3bt) 60 Watt



Industrial Grade
 M12 / EN50155
 10G Managed PoE
 Layer 2 / Layer 3
 Gigabit Managed PoE
 IEC61850-3



Industrial Managed Switch
 Gigabit Ethernet Switch
 10G Ethernet Switch



Industrial Layer 3 Switch
 PoE Ethernet Switch
 non-PoE Ethernet Switch

Industrial PoE Switch
 IEEE802.3at / IEEE802.3bt
 30W / 60W / 95W



EN50155 / M12 Port
 Fastening Cable Connection
 PoE Function
 Layer 2 / Layer 3
 Compact Size



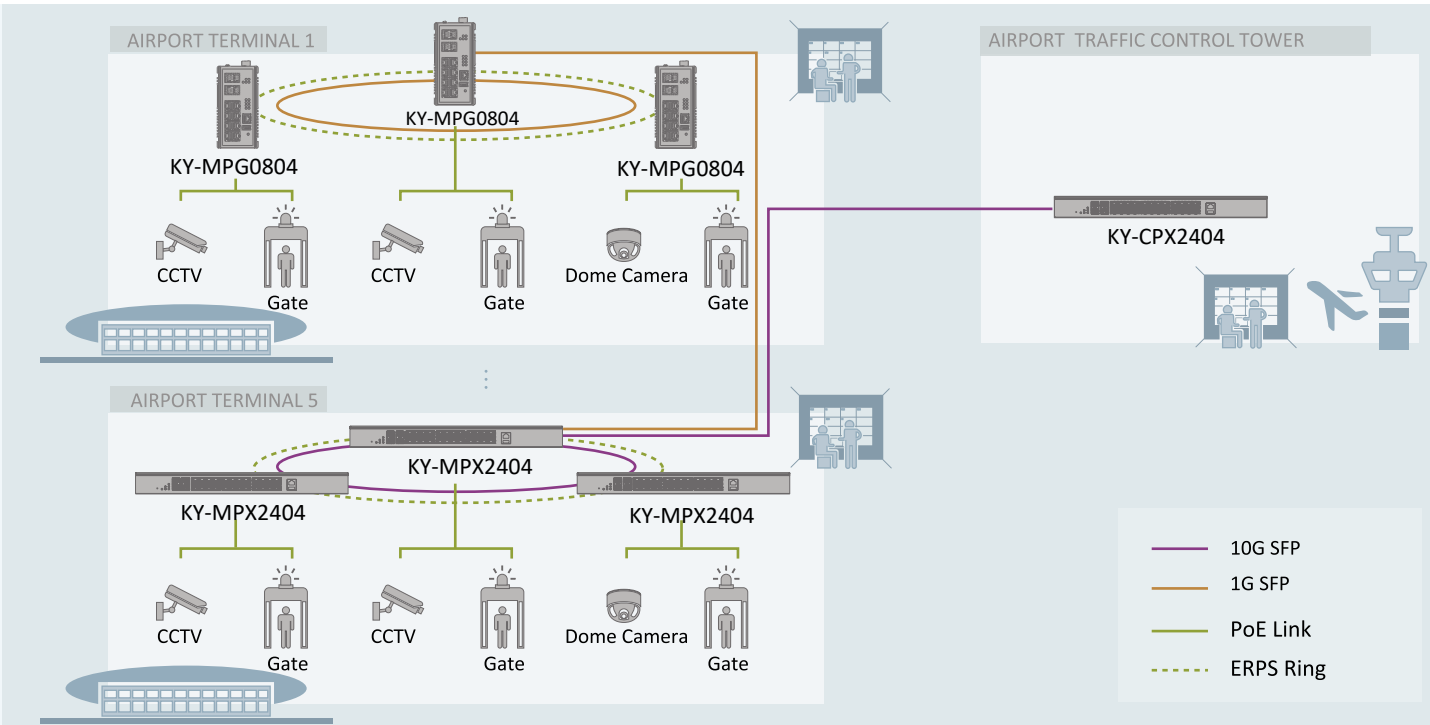
Industrial Unmanaged Ethernet Switch
 PoE Ethernet Switch
 Non-PoE Ethernet Switch



Other Accessories
 Industrial Media Converter
 Industrial Power Supply
 SFP Module
 M12 Cable & Mounting Kit

Transportation

Airport Surveillance



Application Note

Why DYMEC



- Rugged design switches
- Advanced features
- Rapid technical support

We provide Layer 2 & Layer 3 rugged Industrial Ethernet switches with 1 / 10 GbE Solutions, including ERPSv2 Non-Stop Fiber Rings. Reliable Air Traffic Management - that is secure.

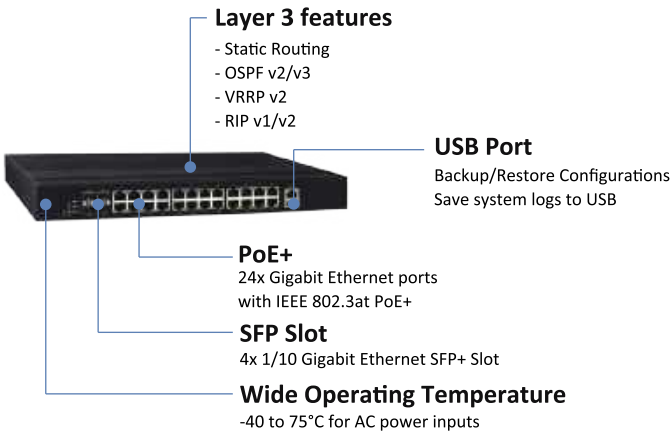


▲ DYMEC Industrial switches support IPv6 and SNMPv3 to enhance your airport network management.



Feature Highlight	Certification	Where to use
• Gigabit to 10G uplink • 30W/60W/95W full PoE solutions • Layer 2 to Layer 3 management • Graphic chart for real-time PoE delivery and traffic data • Temperature Hardened Switches / -40 ~ 85°C	• UL • CE/FCC • IEC61000-6-2 • IEC61000-6-4 • EN50121-4	• Airport Terminal • Traffic Control • Intersection Traffic • Roadside Surveillance • Electronic Toll Collection

Product Spotlight



KY-CPX2404

24+4 Port Industrial Managed PoE+ Layer 3 Switch with 10G Uplink

- PoE PD Alive Check Function for PoE Device Power Recycle
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- IGMP Snooping v1/v2/v3, up to 1023 groups
- DHCP Relay Option 82 for policies IP address assignmen
- Static Routing, Dynamic Routing (RIP v1/v2, OSPF v2), Routed Redundancy (VRRP v2)



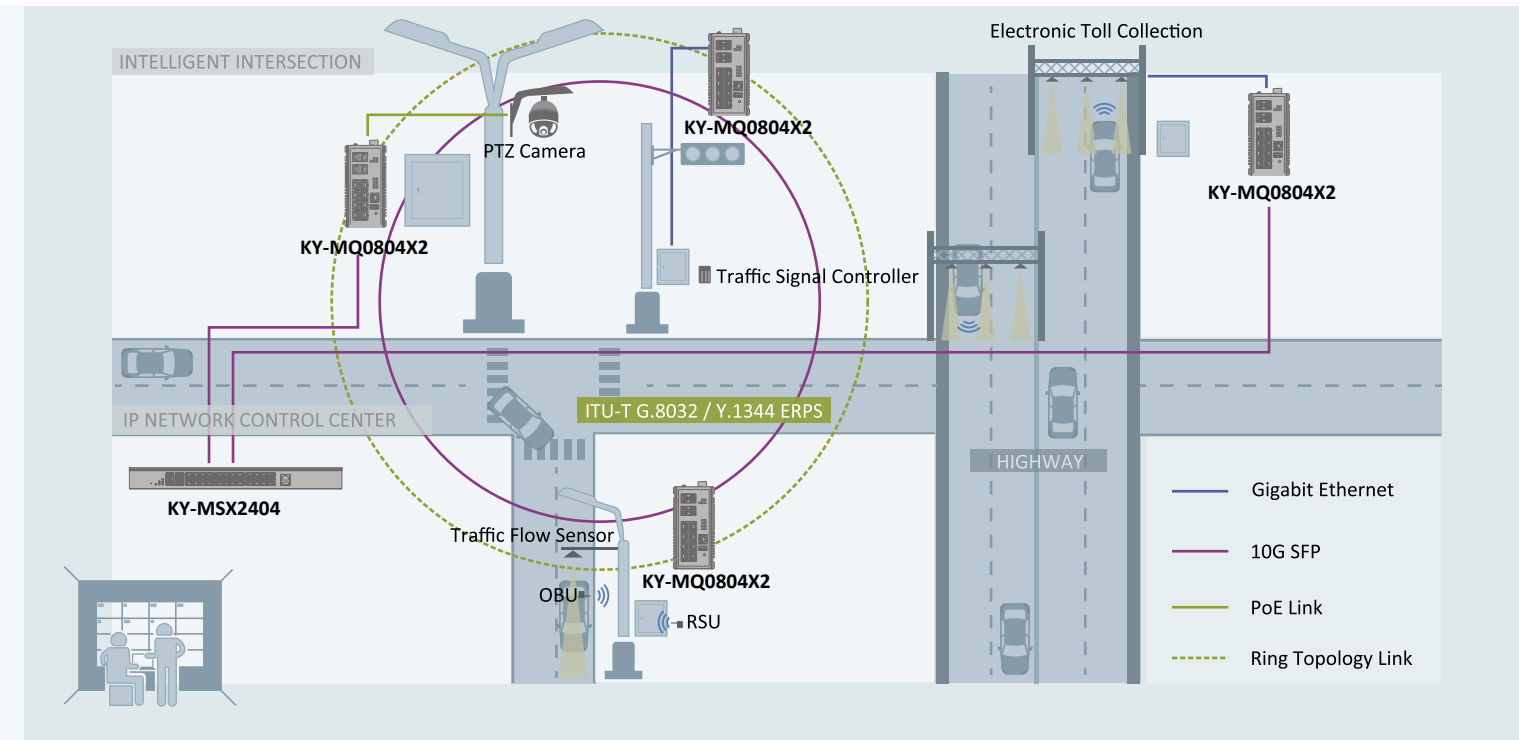
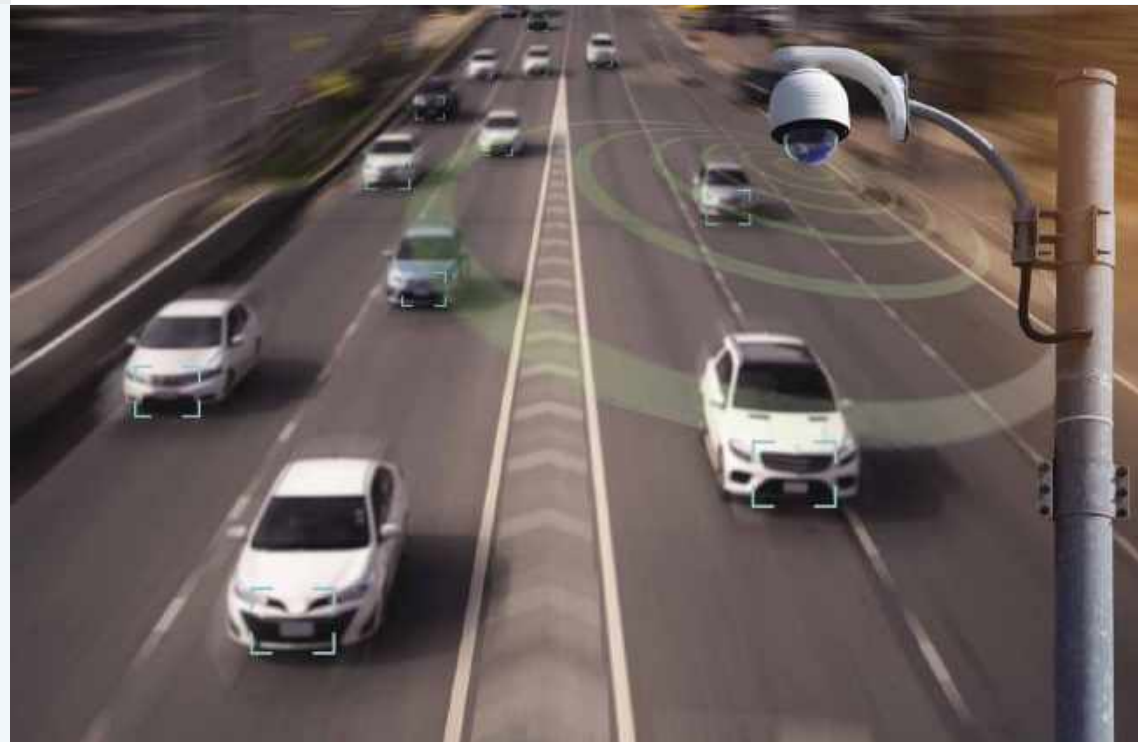
					 95W PoE
	KY-MPX2404	KY-CP1604XB	KY-CPX2404	KY-MH0804G2	KY-MQ0804G2
GbE	✓	✓	✓	✓	✓
10GbE	✓	✓	✓	✓	✓
PoE	✓	✓	✓	✓ (2 x 60W)	✓ (2 x 95W)
Layer3	✓	✓	✓	✓	✓
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

■ IEEE802.3at 30W PoE+ Solution

■ IEEE802.3bt 60W / 95W PoE++ Solution

Transportation

Roadside Surveillance



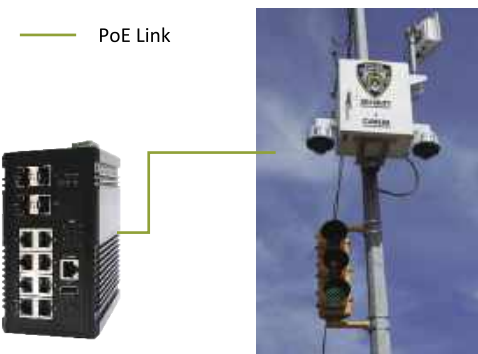
Application Note

Why DYMEC



- Advanced features
- Real-time PoE monitoring
- Easy TX/RX data monitoring

Our 60 & 95 Watt PoE+ Switches (IEEE802.3bt) with 1 / 10 GbE Up-links provide clean, regulated power, including NSA security for your high capacity & resolution requirements.



60 Watt PoE+ (IEEE802.3bt) Switch

- ▲ 60W/95W PoE switches are suitable for HD PTZ Dome Cameras.



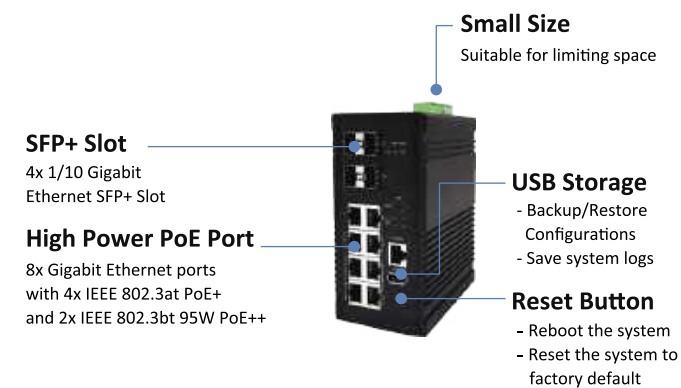
Feature Highlight	Certification	Where to use
• PoE PD Alive Check • Gigabit to 10 Gigabit uplink • 30W/60W/95W full PoE solutions • Layer 2 to Layer 3 management • Temperature Hardened - -40° ~ +85°C	• UL • CE/FCC • IEC61000-6-2 • IEC61000-6-4 • EN50121-4	• Highway • Roadside • Traffic Signal • Toll & Tunnel • Air Traffic

Product Spotlight

KY-MQ0804X2

8+4 Port Industrial Managed PoE++ Ethernet Switch with 10G Uplink

- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- IGMP Snooping v1/v2/v3, up to 1023 groups
- PoE Chart Status to monitor real-time voltage and wattage and collect records.
- PoE PD Alive Check Function for PoE Device Power Recycle



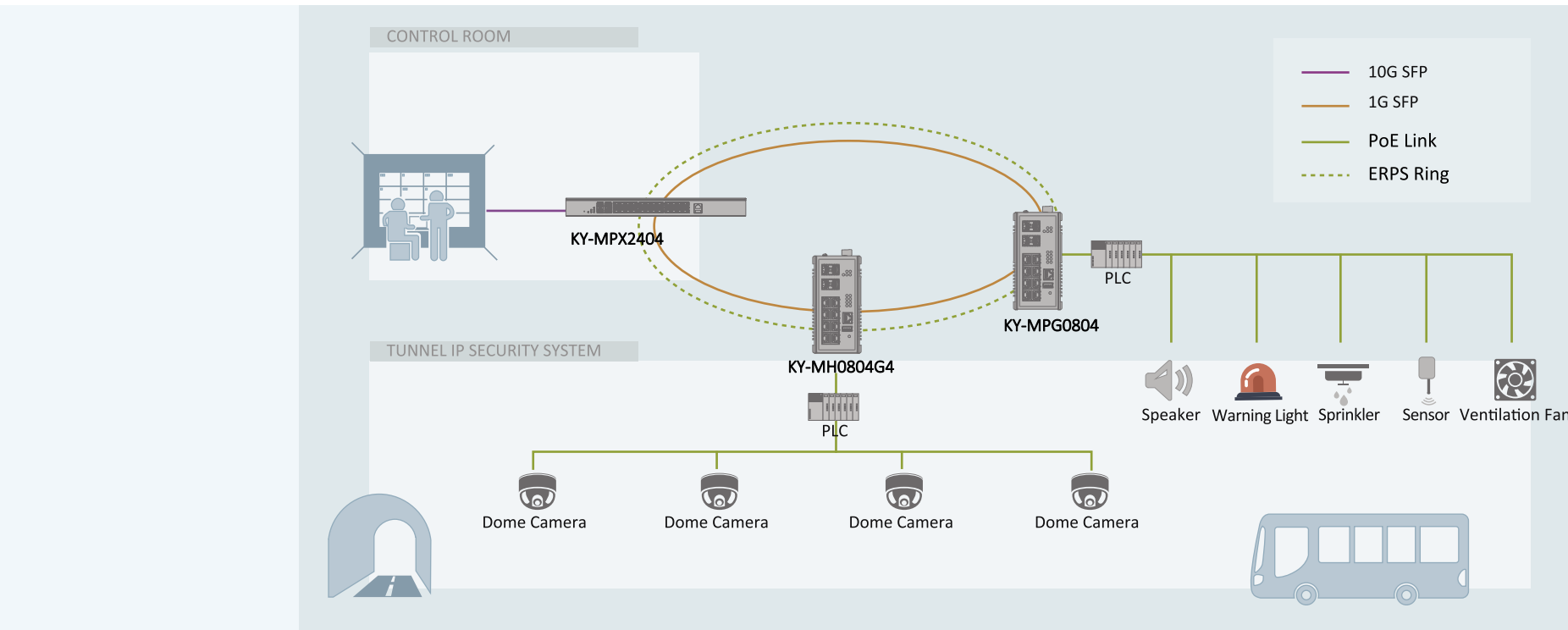
	KY-MTG1002	KY-CPX2404	KY-MH0804G2	KY-MH0804X2	KY-MQ0804X2
GbE	✓	✓	✓	✓	✓
10GbE		✓		✓	✓
Layer 3		✓			
PoE Booster	✓				
Operating Temperature	-40° ~+85°C	-40° ~+85°C	-40° ~+85°C	-40° ~+85°C	-40° ~+85°C

■ IEEE802.3at 30W PoE+ Solution

■ IEEE802.3bt 60W/95W PoE++ Solution

Transportation

Tunnel Surveillance



Application Note

Why DYMEC

- Up to 10G data transmission
- Flexible fiber distance
- Solid design for wide temperature operation

DYMEC offers a wide range of Temperature Hardened Industrial PoE + (IEEE802.3bt) Switches for every camera and sensor need. All our switches come with our secure "Service Control" NSA Endpoint Security.

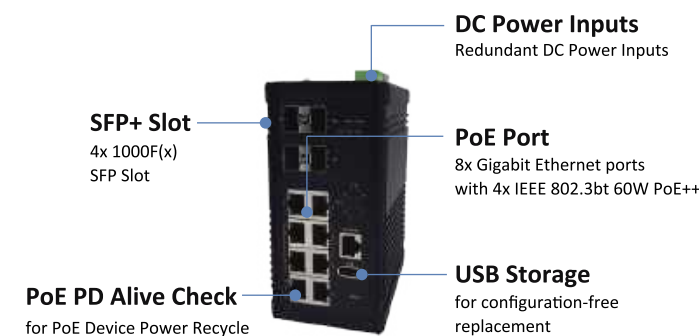


▲ A control center can monitor the remote tunnel traffic by long distance and real-time video data transmission.



Feature Highlight	Certification	When to use...
- High speed up to 10G uplink - PoE PD alive check for PD recycle - IEEE802.3bt 60W/95W standard PoE - PoE Booster 12 to 57VDC - G.8032 ERPSv2 fast recovery ring	- UL - CE/FCC - IEC61000-6-2 - IEC61000-6-4 - EN50121-4	- Tunnel Traffic - Roadside - Highway - Intersection - Vehicle

Product Spotlight



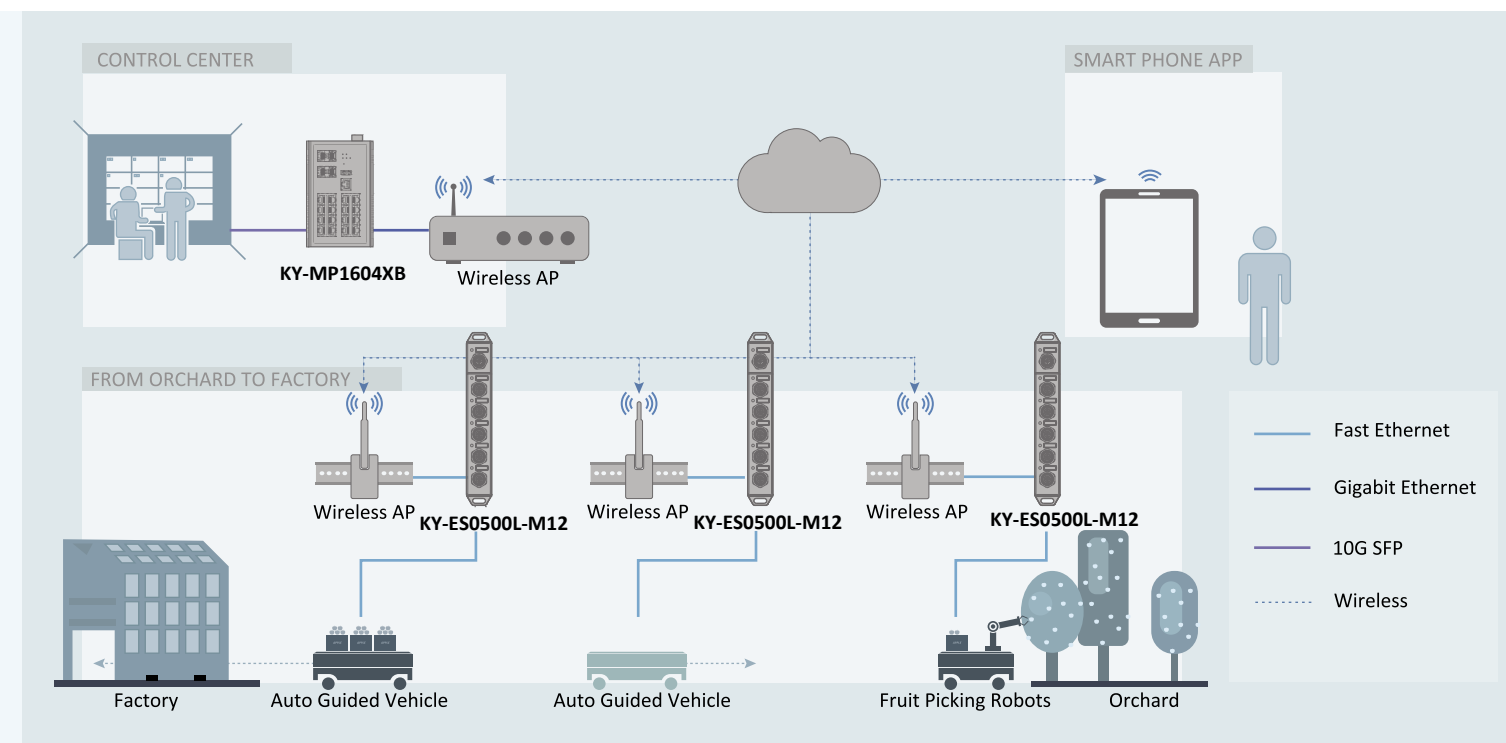
- KY-MH0804G4**
- 8+4 Port Industrial Managed 60W PoE++ Gigabit Ethernet Switch
- RSTP, MSTP, ERPS, LACP for Network Redundancy
 - QoS CoS/DSCP to increase determinism
 - IGMP Snooping v1/v2/v3, up to 1023 groups
 - DHCP Relay Option 82 for policies IP address assignment
 - SNMP v1/v2c/v3 for network management
 - Industrial automation protocols Ethernet/IP and Modbus TCP



	KY-MTG0804	KY-MPG1604	KY-MPG2404	KY-MH0804G4	KY-MQ0804X2
GbE	✓	✓	✓	✓	✓
10GbE					✓
PoE Booster	✓				
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

IEEE802.3at 30W PoE+ Solution

IEEE802.3bt 60W/95W PoE++ Solution



Application Note

Why DYMEC



- Easy PoE status monitoring
- PoE alive check
- Built for harsh environments

DYMEC's Gigabit PoE+ switches provide smooth connections for AI recognition in your robotic networks



^ **DYMEC Industrial switches work reliably and efficiently in rugged auto-guided vehicles for smart farm applications**



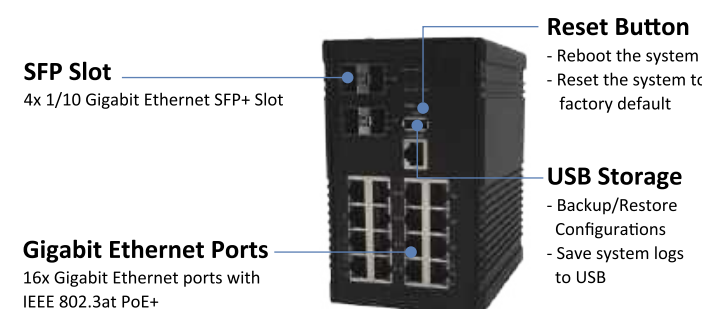
Feature Highlight	Certification	Where to Use
• Gigabit to 10 Gigabit uplink • RJ45 and M12 connector • 30W/60W/95W PoE PSE • ERPS fast recovery ring • DIN Rail and Rack mount installation	• UL • CE/FCC • IEC61000-6-2 • IEC61000-6-4	• Fruits Picking • Temperature & Humidity Monitoring • Soil, Water, Light Management • Autonomous Tractors • Aquaculture

Product Spotlight

KY-MP1604XB

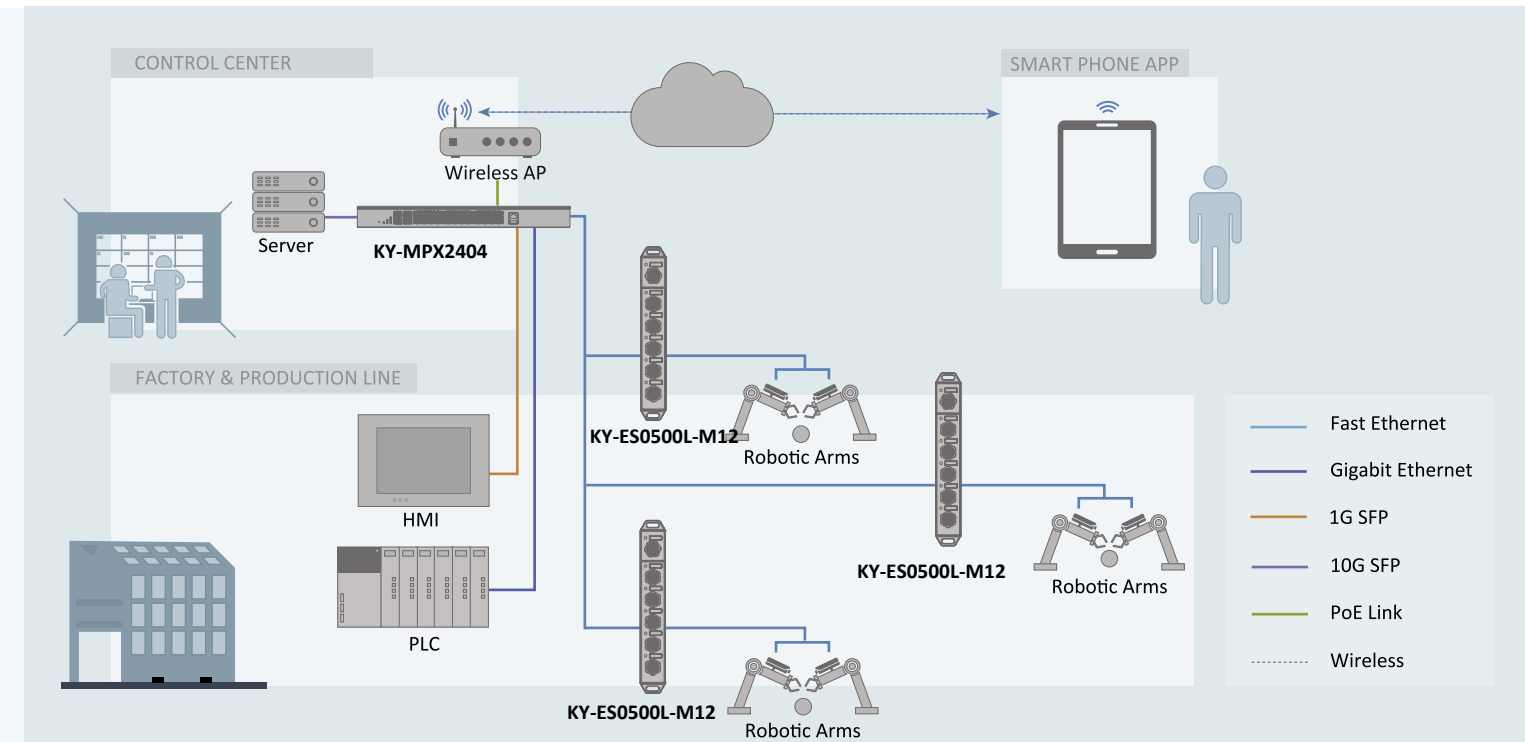
16+4 Port Industrial Managed PoE+ Ethernet Switch with 10G Uplink

- RSTP, MSTP, ERPS, LACP for Network Redundancy
- Industrial automation protocols Ethernet/IP and Modbus TCP
- IGMP Snooping v1/v2/v3, up to 1023 group
- PoE PD Alive Check Function for PoE Device Power Recycle
- SNMP v1/v2c/v3 for network management



	KY-MSX1604	KY-MP1604XB	KY-MPX2404	KY-EPG0802	KY-IPG0101
Gigabit Ethernet Ports	✓	✓	✓	✓	✓
PoE		✓	✓	✓	✓ (60W)
1G/10G SFP+ Ports	✓	✓	✓		
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

■ IEEE802.3at 30W PoE+ Solution



Application Note

Why DYMEC



- Easy data monitoring
- Friendly web interface
- Built for harsh environments

DYMEC's 10GbE PoE+ switches can help your Industrial networks seamlessly integrate into Industry 4.0 capabilities and production.



▲ **DYMEC's Industrial switches integrate into any factory production network. They provide nonstop production flow monitoring for Time Sensitive production control.**



Feature Highlight	Certification	Where to use
• Ethernet/IP, Modbus TCP and Profinet • Fast Ethernet to 10 Gigabit uplink • Copper to Fiber Links • USB storage of configurations and system logs • Data Collection and PoE Chart Status	• UL • CE/FCC • IEC61000-6-2 • IEC61000-6-4 • EN50121-4	• Digital Factories • Fruits Packers • UGV (Unmanned Ground Vehicle) • Robotics Logistics • Transportation

Product Spotlight

Unmanned Ground Vehicles

Unmanned ground vehicles apply on fruit picking and transportation



Robotic Arm

Robotic arms apply on improving the effectiveness of the production line



Sensor Control

Sensor controllers to manage the temperature of the eco pool water



Super Slim Size

Best choice for limited space



3.2cm only

KY-ES0500L-M12

5 Port M12/IP67 Industrial Unmanaged Ethernet Switch

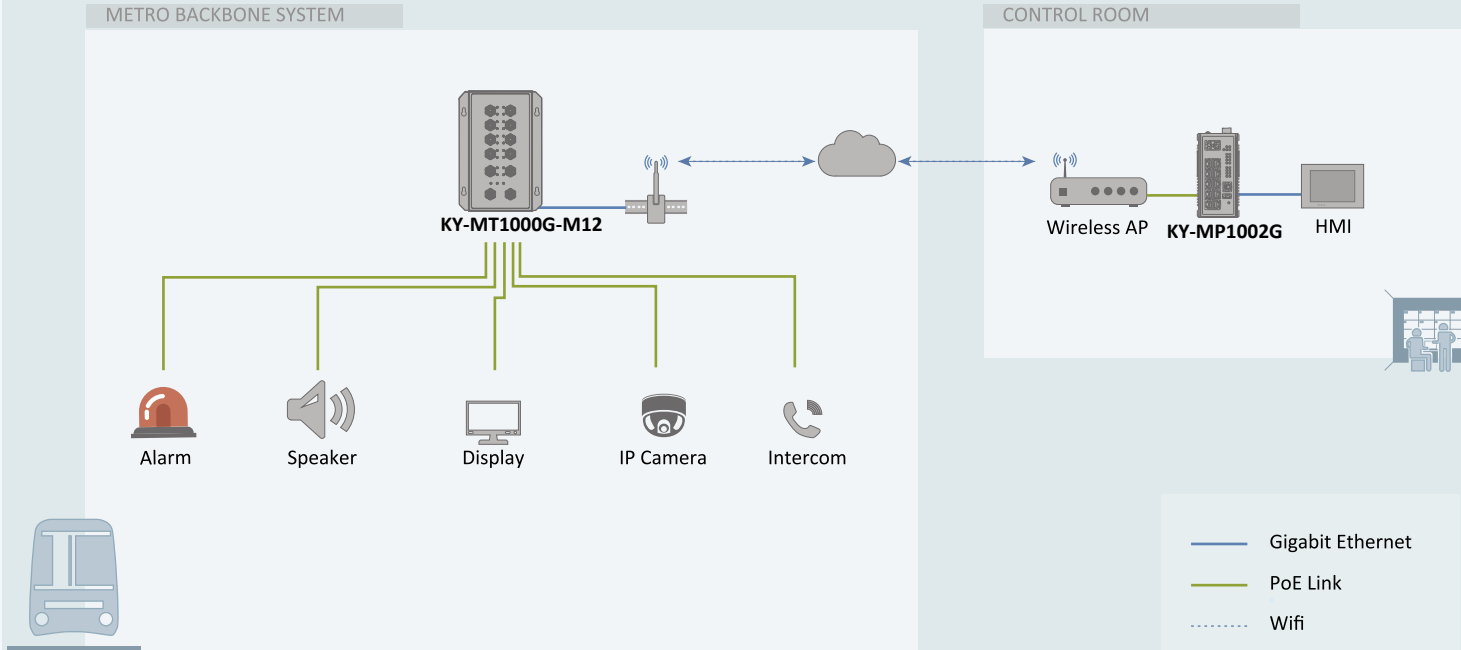
- IP67 protection – against water and dust
- Rugged M12 connectors for shock and vibration resistance
- **Temperature Hardened for extreme conditions**



					
	KY-ES0500L-M12	KY-ES0500GA	KY-ES0800GA	KY-ES1600G	KY-MPX2404
Fast Ethernet	✓				
GbE		✓	✓	✓	✓
10GbE					✓
PoE					✓
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

■ IEEE802.3at 30W PoE+ Solution

Railway System
Metro



Application Note

Why DYMEC

- Ruggedized M12 solution
- High power budget at PoE booster
- IP54 protection

Our sealed, temperature hardened M12 PoE+ Industrial Ethernet switches will provide smooth data & video streams from passenger information systems and IP cameras to Control Centers and to Metro carriages

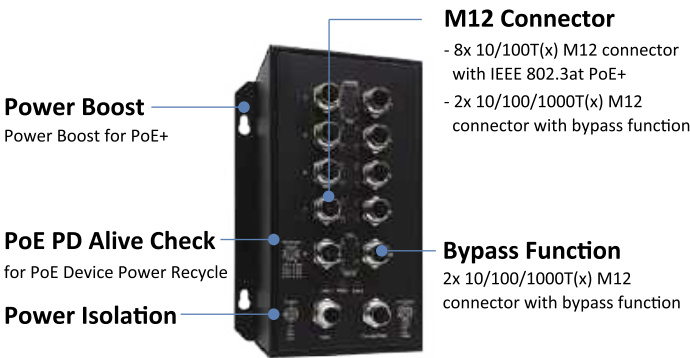


Gigabit & 10 Gigabit solutions ensure seamless video and PIS data transmission.



Feature Highlight	Certification	Where to use
• PoE PD Alive Check for PD Recycle • 30W full M12 standard PoE solutions • PoE Booster 12 to 57VDC • Bypass scheme • Isolated power design • High power input 72 to 110VDC for M12 switches	• UL • CE/FCC • EN50155 • EN50121-4 • EN45545-2	• Metro • Rail • Platform • Track Side • Bus

Product Spotlight



KY-MT0802C-M12

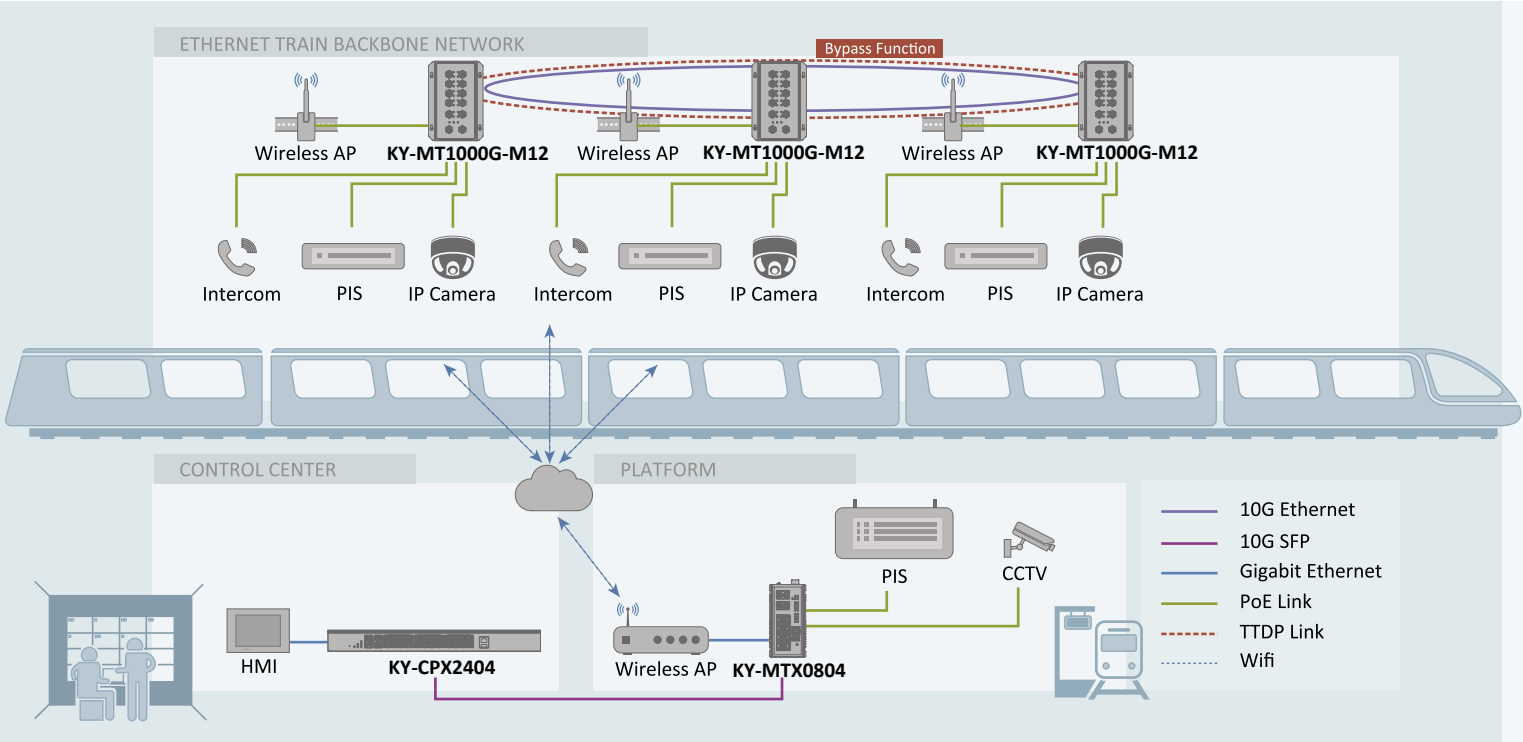
10 Port M12 Industrial Managed PoE+ Booster Gigabit Ethernet Switch

- Compliant with EN50155
- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to increase determinism
- IGMP Snooping v1/v2/v3, up to 1023 groups
- DHCP Relay Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management



	KY-MPG1002	KY-MT0802C-M12	KY-MT1000G-M12	KY-ET0804C-M12	KY-ET1000G-M12
Fast Ethernet		✓		✓	
GbE	✓	✓	✓	✓	✓
PoE Booster		✓	✓	✓	✓
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

IEEE802.3at 30W PoE+ Solution



Application Note

Why DYMEC



- Complete product solutions from train to ground
- Support TTDP/TRDP in train protocols
- Reliable data transmission and PoE supply

DYMEC offers EN50155 certificated, temperature hardened, sealed, PoE+ switches with M12 connectors for harsh environments. Any voltage - any power. 5 Year Warranty



▲ IEE802.3af/at and IEEE802.3bt industrial PoE switches ensure your nonstop network service of railway platforms.



Feature Highlight	Certification	Where to use
• Train Topology Discovery Protocol (IEC61375-2-5) • Train Real-Time Data Protocol (IEC61375-2-3) • Fast Ethernet, Gigabit up to 10G speed • Reliable M12 connectors • Class IP54 water and dust protection • 24VDC PoE Booster or 48VDC / 72 to 110VDC	• UL • CE/FCC • EN50155 • EN50121-4 • EN45545-2	• Railway • Metro • High Speed Rail • Bus • UGV (Unmanned Ground Vehicle)

Product Spotlight



KY-MT1000G-M12

- 10 Port M12 Industrial Managed PoE+ Booster Gigabit Ethernet Switch
- Compliance to TRDP, IEC61375-2-3 (TCN based on Ethernet Technology)
 - Bypass function for non-stop communication even when no power exist
 - Isolated redundant PoE power 190W
 - RSTP, MSTP, ERPS, LACP for Network Redundancy
 - QoS CoS/DSCP to increase determinism
 - Supports IGMP Snooping v1/v2/v3, up to 1023 groups

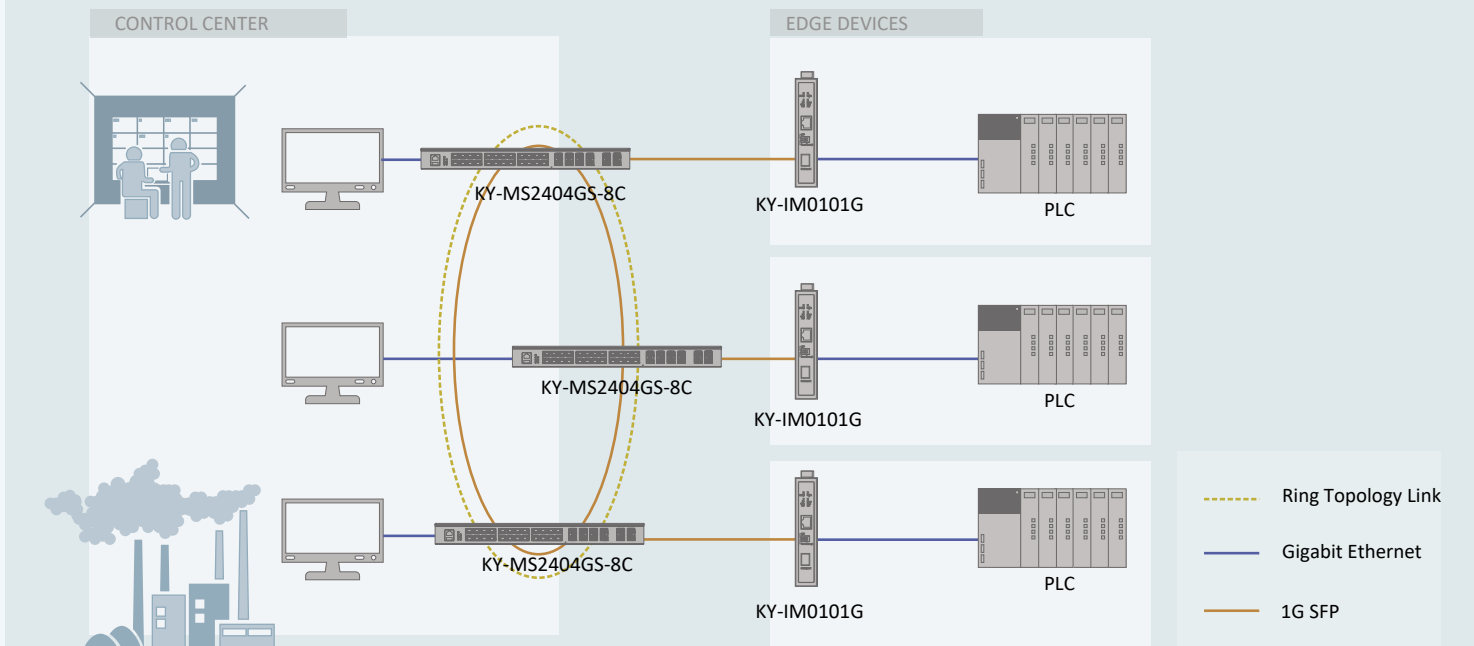


					
	KY-ES0804C-M12	KY-MS0802C-M12	KY-MT0802C-M12	KY-ET1000G-M12	KY-MT1000G-M12
Fast Ethernet	✓	✓	✓		
GbE	✓	✓	✓	✓	✓
10GbE			✓		
PoE			✓	✓	✓
Management		✓	✓		✓
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

■ IEEE802.3at 30W PoE+ Solution

Power & Energy

Power Plant



Application Note

Why DYMEC



- IEC61850-3 & IEEE1613 Safety Certified
- Intelligent data monitoring
- Rugged switches

Real-time Data Collection features, in the DYMEC switch, makes your network control management smarter. Your network is less congested with higher throughput.



▲ To manage the machinery end devices in a control center of a power plant.



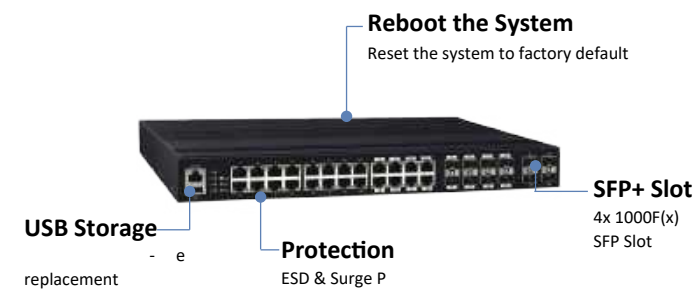
Feature Highlight	Certification	Where to use
• IEEE1588v2 PTP • Gigabit to high speed • VRRPv2 802.1X, RADIUS, TACACS+, SSL, SSH • Temperature Hardened / -40° ~ +85°C NSA • Endpoint Secure	• UL • CE/FCC • IEC61850-3 • IEEE1613 • IEC61000-6-2 • IEC61000-6-4	• Plant • Solar Power Plant • Data Center •

Product Spotlight

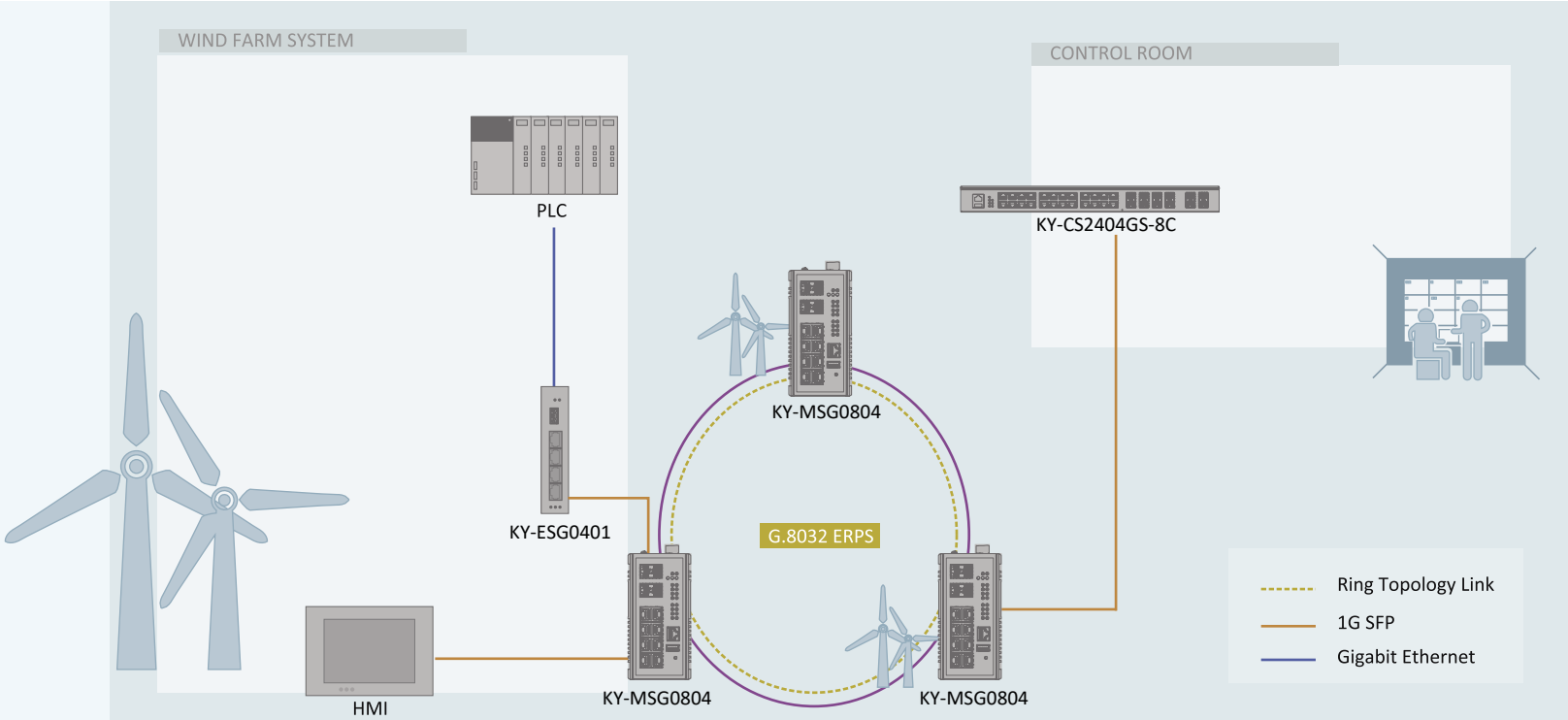
KY-MS2404GS-8C

16+8+4 Port Industrial Managed Gigabit Ethernet Switch

- RSTP, MSTP, ERPS, LACP for Network Redundancy
- QoS CoS/DSCP to insure redundancy & delivery
- Supports IGMP Snooping v1/v2/v3, up to 1023 groups
- Option 82 for policies IP address assignment
- SNMP v1/v2c/v3 for network management
- Supports industrial protocols Ethernet/IP and Modbus TCP



	IM-0101G	ES-0500LA	MS-0804G	MS-2404GS-8C	CS-2404GS-8C
Fast Ethernet		✓			
GbE	✓		✓	✓	✓
IEC61850-3				✓	✓
Management			✓	✓	✓
Temperature Hardened	-30° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C



Application Note

Why DYMEC

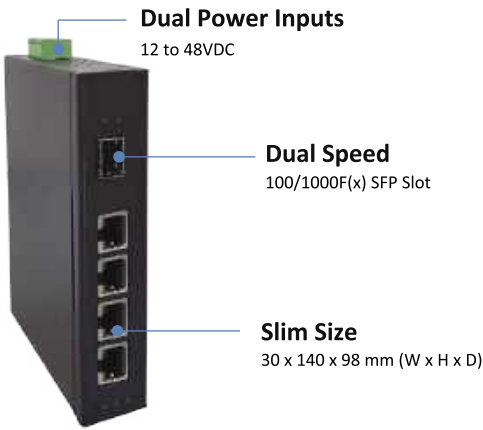
- Slim size: Saving space
- Advanced Gigabit speed
- Easy installation

DYMEC provides both Managed and Unmanaged - Layer 2 and Layer 3 Industrial Ethernet switches. Safe, secure - includes a 5 Year Warranty.

▲ Dymec software features make your long distance networking management easier and more secure. **NSA Endpoint.**

Feature Highlight	Certification	Where to use
• Low Power Consumption • 5 Year Warranty • PoE+ Booster • PoE PD alive check • Slim size • Redundant power inputs	• UL • CE/FCC • IEC61000-6-2 • IEC61000-6-4	• Wind Power Plant • Solar Power Plant • Renewable Energy • IP Surveillance • Oilfield Monitoring

Product Spotlight

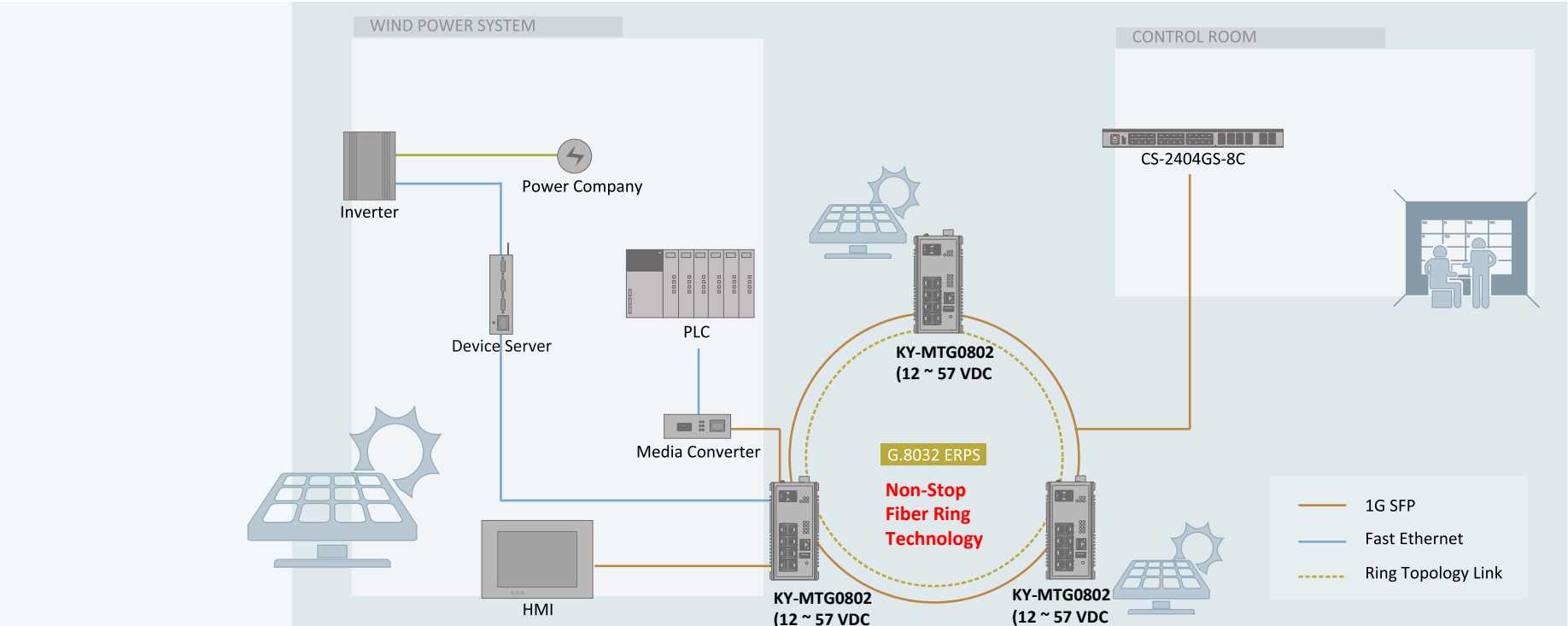


KY-ESG0401

4+1 Port Industrial Unmanaged Gigabit Ethernet Switch

- 4x Gigabit Ethernet ports
- 1x 100/1000F(x) SFP Slot
- Built for harsh environments and wide temperature range application
- IP30 housing
- DIN-Rail Mounting, Optional Wall Mounting

	KY-MSG0804	KY-MSG1604	KY-CS2404G-8C	KY-ESG0401	KY-EPG0401
GbE	✓	✓	✓	✓	✓
PoE					✓
Managed	✓	✓	✓		
Fixed Fiber Version				✓	✓
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C



Application Note

Why DYMEC



- Nonstop data transmission
- Reliable operation in harsh environments
- Friendly web management interface

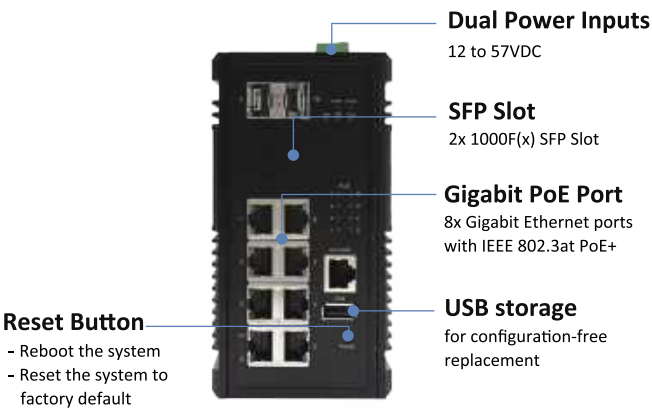


DYMEC Industrial Ethernet switches support Non-Stop Fiber Rings for complete redundancy. Multi-Ring G.8032 ERPSv2. All have redundant Dual-Power inputs



Feature Highlight	Certification	Where to use
• G.8032 ERPSv2 fast recovery ring • IPv6 management • Security authentication IEEE802.1X • Multiple functions reset button • Digital inputs and USB storage	• UL • CE/FCC • EN50121-4 • IEC61000-6-2 • IEC61000-6-4	• Solar Power Plant • Energy Storage Monitoring System • Power Distribution Networks • Factory Logistics • Manufacturing Quality Check

Product Spotlight

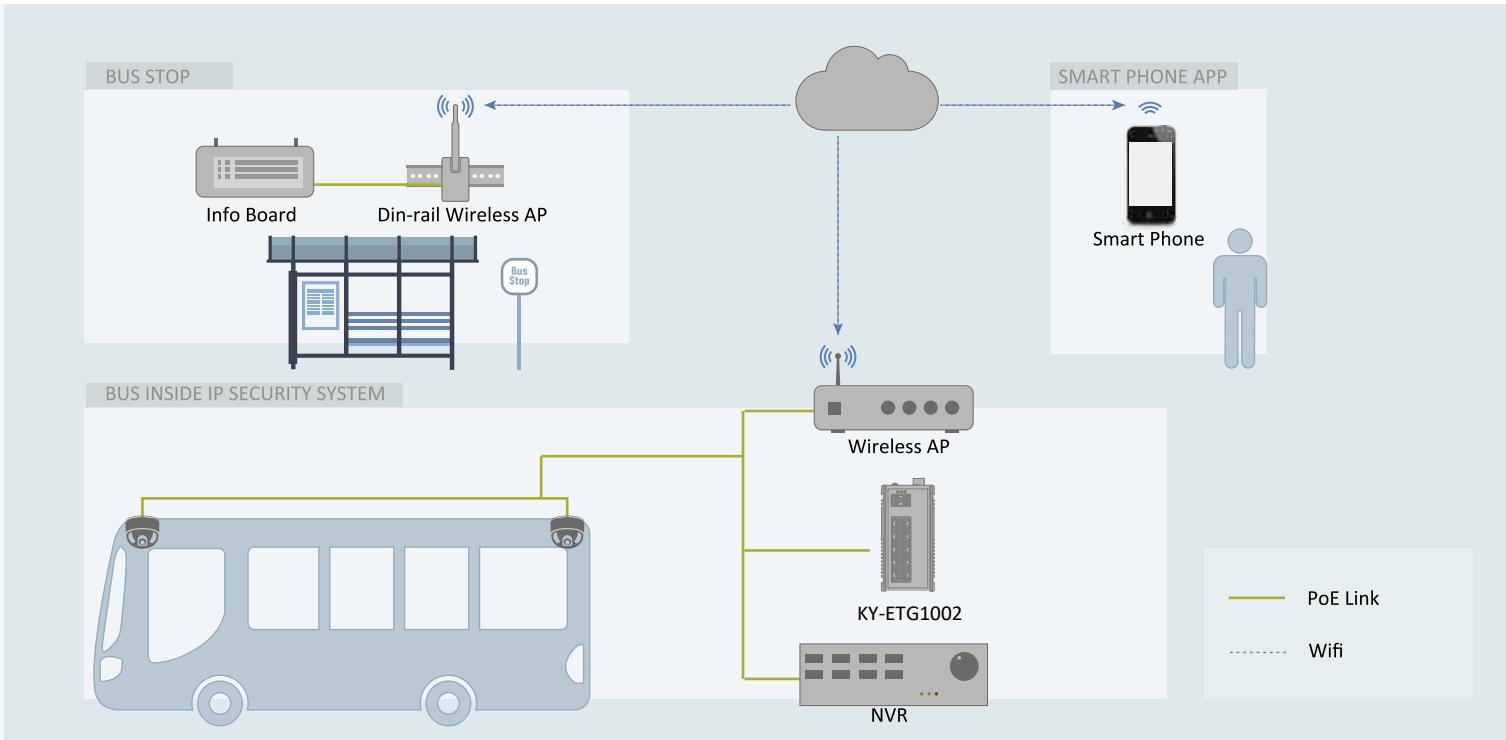


- KY-MTG0802**
8+2 Port Industrial Managed PoE+ Booster Gigabit Ethernet Switch
- RSTP, MSTP, ERPS, LACP for Network Redundancy
 - IGMP Snooping v1/v2/v3, up to 1023 groups
 - SNMP v1/v2c/v3 for network management
 - DHCP Relay Option 82 for policies IP address assignment
 - QoS CoS/DSCP to increase determinism
 - Support industrial automation protocols Ethernet/IP and Modbus TCP
 - Supports PoE PD Alive Check Function for PoE Device Power Recycle
 - Power Boost for PoE+



	KY-MSG0802	KY-MSG0804	KY-CS2404G-8C	KY-EPG0401	KY-IPG0101
GbE	✓	✓	✓	✓	✓
PoE				✓	✓ (60W)
Layer 3			✓		
Fixed Fiber Version				✓	
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-30° ~ +85°C

■ IEEE802.3at 30W PoE+ Solution



Application Note

Why DYMEC

- 1G/10G High Speed Transmission
- Flexible Customization Service
- Efficient Technical Support

For Shock & Vibration environments - you can count on rugged DYMEC industrial Ethernet switches with secure M12 connectors. Reliable data transmission. DYMEC has a full 5 Year Warranty



▲ IP network construction is a key to build a smart city.



Feature Highlight	Certification	Where to use
• Fast Ethernet/1G/10G solutions • Low power input 12VDC/24VDC/48VDC • High power input 72 to 110VDC for M12 switches • G.8032 ERPSv2 fast recovery ring • 802.1X, RADIUS, TACACS+, SSL, SSH • PoE Booster 12 to 57VDC	• UL • CE/FCC • EN50155 • EN50121-4 • EN45545-2	• Bus & Other Vehicle • Automatic Guided Vehicle • Robotic • Metro • High Speed Rail

Product Spotlight

E Mark
for in-vehicle application

SFP Slot
2x 100/1000F(x) SFP Slot

PoE+
10x Gigabit Ethernet ports with 8x IEEE 802.3at PoE+

KY-ETG1002

10+2 Port Industrial Unmanaged PoE+ Booster Gigabit Ethernet Switch

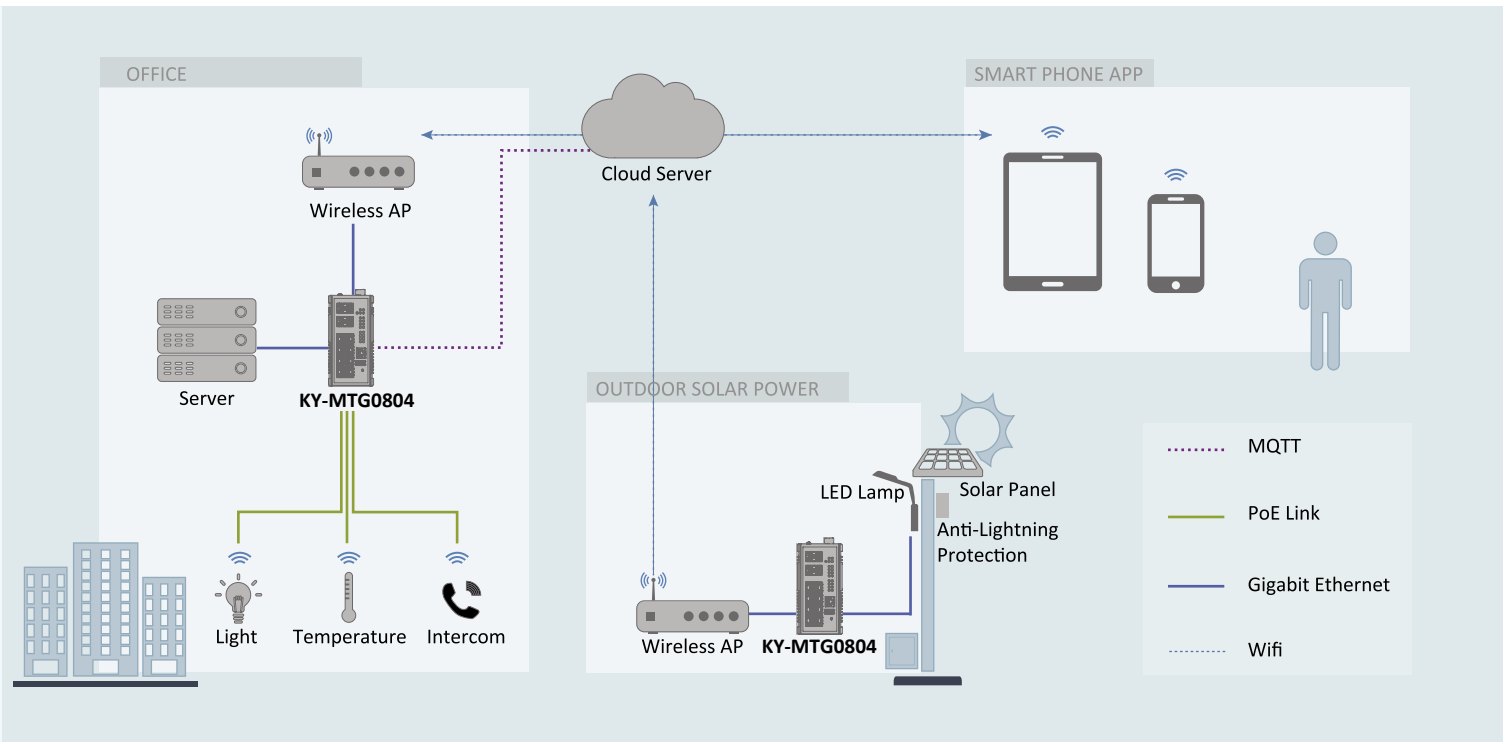
- 10x Gigabit Ethernet ports with 8x IEEE 802.3at PoE+
- 2x 100/1000F(x) SFP Slot
- Built for harsh environments and wide temperature range application
- IP30 housing
- DIN-Rail Mounting, Optional Wall Mounting
- 12 to 57VDC Power Inputs with Power Boost for PoE+

	KY-MT0802C-M12	KY-EPG0802	KY-ET0804C-M12	KY-ES0500L-M12	KY-ES0800L-M12
Fast Ethernet	✓		✓	✓	✓
GbE	✓	✓	✓		
PoE	✓	✓	✓		
Power Booster	✓		✓		
M12	✓		✓	✓	✓
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

■ IEEE802.3at 30W PoE+ Solution

Smart City

Lighting Control



Application Note

Why DYMEC



- Intelligent connectivity
- Easy remote monitoring
- Mobility management

MQTT (MQ Telemetry Transport) is to enhance the mobility and convenience of your remote networking management with extremely low data rates. Used extensively in the oil, gas & chemical industries. (ISO/IEC PRF 20922) Also used in DOT infrastructure

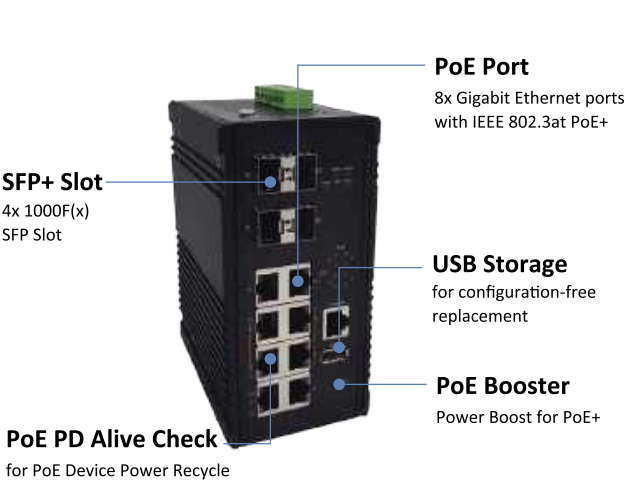


Remote monitoring feature breaks the limit of geography and saves your time.



Feature Highlight	Certification	Where to use
• MQTT remote monitoring • PoE Booster • 802.1X, RADIUS, TACACS+ security • IPv6 management • Gigabit to 10G uplink • PoE Booster 12 to 57VDC	• UL • CE/FCC • IEC61000-6-2 • IEC61000-6-4	• Building control system • Building surveillance • Safeguarding automation networks • Smart Factory production flow • Outdoor surveillance

Product Spotlight



- KY-MTG0804**
8+4 Port Industrial Managed PoE+ Booster Gigabit Ethernet Switch
- RSTP, MSTP, ERPS, LACP for Network Redundancy
 - QoS CoS/DSCP to increase determinism
 - Supports IGMP Snooping v1/v2/v3, up to 1023 groups
 - DHCP Relay Option 82 for policies IP address assignment
 - SNMP v1/v2c/v3 for network management
 - Support industrial automation protocols Ethernet/IP and Modbus TCP

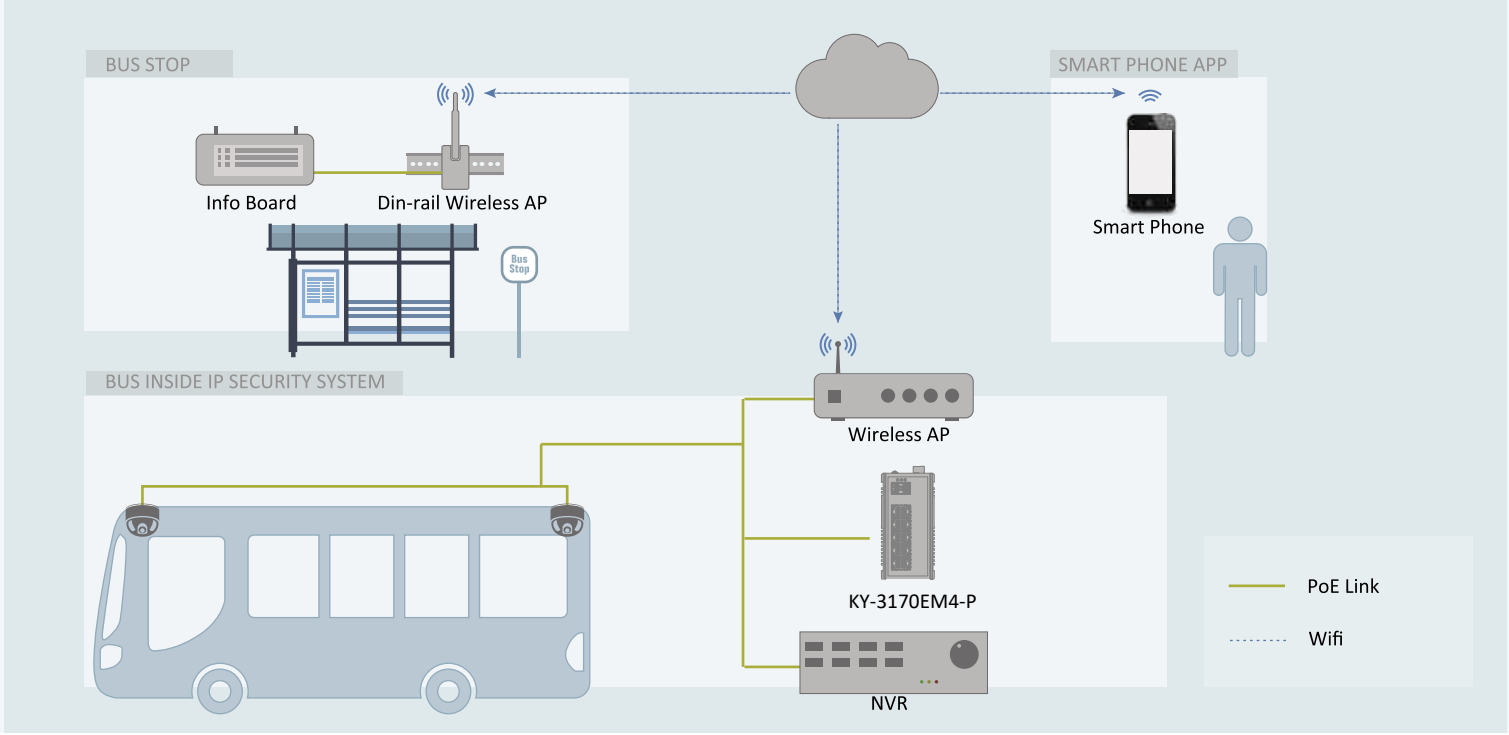


	KY-MTG0802	KY-MTG0804	KY-MTG1002	KY-CPG0804	KY-MPX2404
GbE	✓	✓	✓	✓	✓
10GbE					✓
PoE	✓	✓	✓	✓	✓
PoE Booster	✓	✓	✓		
Operating Temperature	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

IEEE802.3at 30W PoE+ Solution

3170 ITS Industrial Ethernet Traffic Switch

Input File - Rack Mount Switch
KY-3170EM4 & KY-3170EM4/2 & KY-3170EM4-P
(IEEE802.3bt) 60 Watt PoE



Application Note

Why DYMEC

- 1G/10G High Speed Transmission
- Flexible Customization Service
- Efficient Technical Support

- DYMEC Invented the 3170 Product
- NSA Endpoint Secure
- Ultra-low Power Consumption
- Easy Installation & Maintenance
- Built-in Traffic Analysis
- DYMEC has a full 5 Year Warranty



▲ IP network construction is a key to build a smart city.



Feature Highlight	Certification	Where to use
1) Fast Ethernet /1GbE / 10GbE Solutions 2) Lowe Power Input - 12 ~ 48 Volts DC 3) G.8032 ERPSv2 Self-Healing Ring 4) 802.1X, RADIUS, TACACS+, SSL, SSH 5) Built-in Traffic Analysis 6) Jumbo- Frame Support 7) ACL Support 8) IGMP Snooping 9) Mass Software Deployment & Upgrades	- UL /CE /FCC - NEMA TS-2 - EN50155 - EN50121-4 - EN45545-2 - UL 60950-1 - IEC 62380	- Bus & Other Vehicles - Self Driving Vehicles - Auto-Guided Vehicles - Robotic Systems - Highway - Bridges & Tunnels - Metro Rail - High Speed Rail - People Movers



KY-3170EM4 & KY-3170EM4/2

- 10 Port, 1 GbE, Industrial Ethernet Switch
- 6 x 10/100/1000 TX RJ-45 Ports
- 4 x 1000 SFP Slots
- 1 x USB Port for Backup / Troubleshooting
- INPUT FILE Switch - Temperature Hardened
- G.8032 ERPSv2 Non-Stop Fiber Rings
- Layer 2 Switching
- MAC Table for Troubleshooting
- Fiber Port Diagnostics
- Copper Port Diagnostics
- RSTP / MSTP / VLAN
- NEMA & Non-NEMA Traffic Cabinets
- Power 12 ~ 48 Volts DC

	KY-3170EM4	KY-3170EM4/2	KY-3170EM4-P	KY-3170XM	KY-3170XR
GbE	✓	✓	✓	✓	✓
10GbE				✓	✓
PoE (bt)			✓		
Layer 2 Switch	✓	✓	✓	✓	✓
Layer 3 Router					✓
Temperature Hardened	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C	-40° ~ +85°C

* NOTE: KY-3170EM4/2 includes - 2 x 1000 Copper RJ-45 SFP at no extra cost

3170 ITS Industrial Ethernet Traffic Switch

Input File - 1 / 10 GbE Rack Mount Switch
KY-3170XM & KY-3170XR Router



KY-3170XM

- 10 Port, 10 GbE, Industrial Ethernet Switch
- 6 x 10/100/1000 TX RJ-45 Ports
- 4 x 1 GbE / 10 GbE SFP Slots
- 1 x USB Port for Backup / Troubleshooting
- INPUT FILE Switch - 2 SLOT
- Temperature Hardened
- G.8032 ERPSv2 Non-Stop Fiber Rings
- Layer 2 Switching
- MAC Table for Troubleshooting
- Fiber Port Diagnostics
- Copper Port Diagnostics
- Built-in Traffic Analysis
- RSTP / MSTP / VLAN
- NEMA & Non-NEMA Traffic Cabinets
- Power 12 ~ 48 Volts DC

KY-3170XR



- 10 Port, 10 GbE, Industrial Ethernet Switch/ Router
- 6 x 10/100/1000 TX RJ-45 Ports
- 4 x 1 GbE / 10 GbE SFP Slots
- 1 x USB Port for Backup / Troubleshooting
- INPUT FILE Switch - 2 SLOT
- Temperature Hardened
- G.8032 ERPSv2 Non-Stop Fiber Rings
- Layer 2 Switching & Layer 3 Routing
- MAC Table for Troubleshooting
- Fiber Port Diagnostics
- Copper Port Diagnostics
- Built-in Traffic Analysis
- RSTP / MSTP / VLAN
- NEMA & Non-NEMA Traffic Cabinets
- Power 12 ~ 48 Volts DC

ROUTING INCLUDES: STATIC IPv4 Routed, OSPFv2, GRE, VRRP

Application Note

Why DYMEC

- 💡 NSA Certified Secure Endpoint & Service Control
- Console Port Shutdown
- Reset Button Disabled
- Secure Chassis Enabled
- Easy to control GUI
- All telecom protocols are secure



Feature Highlight	Certification	Where to use
1) Fast Ethernet /1GbE / 10GbE Solutions 2) Lowe Power Input - 12 ~ 48 Volts DC 3) G.8032 ERPSv2 Self-Healing Ring 4) 802.1X, RADIUS, TACACS+, SSL, SSH 5) Built-in Traffic Analysis 6) Jumbo- Frame Support 7) ACL Support 8) IGMP Snooping 9) Mass Software Deployment & Upgrades	• UL /CE /FCC • NEMA TS-2 • EN50155 • EN50121-4 • EN45545-2 • UL 60950-1 • IEC 62380	o Bus & Other Vehicles o Self Driving Vehicles o Auto-Guided Vehicles o Robotic Systems o Highway o Bridges & Tunnels o Metro Rail o High Speed Rail o People Movers

Product Spotlight

KY-3170EM4-P / IEEE802.3bt



- 10 Port, 1 GbE, Industrial PoE+ Ethernet Switch
- 6 x 10/100/1000 TX RJ-45 PSE Ports
- 4 x 1000 SFP Slots
- 1 x USB Port for Backup / Troubleshooting
- INPUT FILE Switch - Temperature Hardened
- G.8032 ERPSv2 Non-Stop Fiber Rings
- Layer 2 Switching
- MAC Table for Troubleshooting
- Fiber Port Diagnostics
- Copper Port Diagnostics
- RSTP / MSTP / VLAN
- NEMA & Non-NEMA Traffic Cabinets
- Power 12 ~ 48 Volts DC / PoE Power 48 ~ 57 Volts DC

Industrial IEC61850-3 Managed Ethernet Switches



Layer 3

Model Name	KY-MS2404GS-8C	KY-MS2800GFS-8C	KY-CS2404GS-8C
	non-PoE	non-PoE	non-PoE
Number of Port			
Max. Port	28	28	28
Gigabit Ethernet Port	16	-	16
100/1000Tx SFP Port	-	20	-
1000Tx SFP Port	4	-	4
1G/10G SFP+ Port	-	-	-
Combo Port	8	8	8
Mechanism			
Enclosure	SECC/Aluminum	SECC/Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30
Dimensions(mm)	440x44x331	440x44x331	440x44x331
Weight(kg)	4.80 kg	4.70 kg	4.80 kg
Mounting	Rack Mount	Rack Mount	Rack Mount
Environment			
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy			
STP/RSTP	✓	✓	✓
MSTP	✓	✓	✓
ERPS	✓	✓	✓
MRP	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓
Software Feature			
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, Modbus/TCP, Ethernet/IP, PROFINET		
Layer 3 Feature			
Static Routing	-	-	✓
OSPFv2	-	-	✓
RIP v1/v2	-	-	✓
VRRPv2 Switch Property			
Jumbo Frame Support	9216 bytes	12288 bytes	9216 bytes
MAC Table Size	16K	16K	16K
Packet Buffer Size	12 Mbits	32 Mbits	12 Mbits
Power Input	90 - 264 VAC, 88 - 370VDC 18 - 36 VAC, 36 - 75VDC	90 - 264 VAC, 88 - 370VDC 18 - 36 VAC, 36 - 75VDC	90 - 264 VAC, 88 - 370VDC 18 - 36 VAC, 36 - 75VDC
Power Consumption (Sys.)	30W	30W	30W
Certification			
CE / FCC / NEMA TS-2	✓	✓	✓
NSA / Service Control	✓	✓	✓
IEC61850-3/IEEE1613	✓	✓	✓

Industrial EN50155 M12 Managed Ethernet Switches



Model Name	KY-MT0802C-M12	KY-MT1000G-M12	KY-MS0802C-M12	KY-MS1000G-M12
	PoE	PoE	non-PoE	non-PoE
Number of Port				
Max. Port	10	10	10	10
10 Gigabit Ethernet Port	-	-	-	-
Gigabit Ethernet Port	2	10	2	10
Fast Ethernet Port	8	-	8	-
100/1000Tx SFP Port	-	-	-	-
1000Tx SFP Port	-	-	-	-
1G/10G SFP+ Port	-	-	-	-
Fix Fiber Port	-	-	-	-
PoE Ports (802.3at)	8	8	-	-
PoE Ports (802.3bt)	-	-	-	-
Combo Port	-	-	-	-
Mechanism				
Enclosure	SECC	SECC	SECC	SECC
Protection Class	IP54	IP54	IP54	IP54
Dimensions(mm)	143x209x77	143x209x77	143x209x77	143x209x77
Weight(kg)	2.16 kg	2.16 kg	1.2 kg	1.2 kg
Mounting	Wall / Din-Rail*	Wall / Din-Rail*	Wall / Din-Rail*	Wall / Din-Rail*
Environment				
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy				
STP/RSTP	✓	✓	✓	✓
MSTP	✓	✓	✓	✓
ERPS	✓	✓	✓	✓
MRP	Optional	Optional	✓	✓
Port Trunking / LACP	✓	✓	✓	✓
Software Feature				
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET			
Layer 3 Feature				
Static Routing	-	-	-	-
OSPFv2	-	-	-	-
RIP v1/v2	-	-	-	-
TTDP/TRDP	-	-	-	-
Switch Property				
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	24VDC, 48VDC, 72-110VDC	24VDC, 48VDC, 72-110VDC	24 - 48VDC, 72-110VDC	24 - 48VDC, 72-110VDC
Power Consumption (Sys.)	16W	18W	15W	16W
PoE Power Budget	190W (24VDC) 156W (110VDC)	190W (24VDC) 156W (110VDC)	-	-
Certification				
CE / FCC / NEMA TS-2	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓
EN50155	✓	✓	✓	✓

Note: * Std: Wall Mount Kit; Optional: Din-Rail Kit

Industrial EN50155 ▾ M12 Unmanaged Ethernet Switches



Model Name	KY-ET0802C-M12	KY-ET0804C-M12	KY-ET1000G-M12	KY-ES0802C-M12	KY-ES0804C-M12
	PoE	PoE	PoE	PoE	PoE
Number of Port					
Max. Port	10	12	10	10	12
10 Gigabit Ethernet Port	-	-	-	-	-
Gigabit Ethernet Port	2	4	10	2	4
Fast Ethernet Port	8	8	-	8	8
100/1000Tx SFP Port	-	-	-	-	-
1000Tx SFP Port	-	-	-	-	-
1G/10G SFP+ Port	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	8	8	8	-	-
PoE Ports (802.3bt)	-	-	-	-	-
Combo Port	-	-	-	-	-
Mechanism					
Enclosure	SECC	SECC	SECC	SECC	SECC
Protection Class	IP54	IP54	IP54	IP54	IP54
Dimensions(mm)	143x209x77	165x99x50	143x209x77	143x209x77	165x99x50
Weight(kg)	2.1 kg	2.2 kg	2.16 kg	1.2 kg	1.3 kg
Mounting	Wall / Din-Rail*	Wall / Din-Rail*	Wall / Din-Rail*	Wall / Din-Rail*	Wall / Din-Rail*
Environment					
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	-	-	-	-	-
MSTP	-	-	-	-	-
ERPS	-	-	-	-	-
MRP	-	-	-	-	-
Port Trunking / LACP	-	-	-	-	-
Software Feature					
	-				
Layer 3 Feature					
Static Routing	-	-	-	-	-
OSPFv2	-	-	-	-	-
RIP v1/v2	-	-	-	-	-
TTDP/TRDP	-	-	-	-	-
Switch Property					
Jumbo Frame Support	9216 bytes	9600 bytes	9216 bytes	9216 bytes	9600 bytes
MAC Table Size	16K	8K	16K	16K	8K
Packet Buffer Size	12 Mbits	4 Mbits	12 Mbits	12 Mbits	4 Mbits
Power Input	24VDC, 48VDC, 72-110VDC	24VDC, 48VDC, 72-110VDC	24VDC, 48VDC, 72-110VDC	24 - 48VDC, 72 - 110VDC	24 - 48VDC, 72 - 110VDC
Power Consumption (Sys.)	16W	16W	18W	15W	14W
PoE Power Budget	190W (24VDC) 156W (110VDC)	190W (24VDC) 156W (110VDC)	190W (24VDC) 156W (110VDC)	-	-
Certification					
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
EN50155	✓	✓	✓	✓	✓

Note: * Std: Wall Mount Kit; Optional: Din-Rail Kit

Industrial 10 Gigabit ▾ Layer 2 Managed Ethernet Switches



Model Name	KY-MPX0802	KY-MPX1002	KY-MPX0804	KY-MTX0804	KY-MH0804X2
	PoE	PoE	PoE	PoE	PoE
Number of Port					
Max. Port	10	12	12	12	12
10 Gigabit Ethernet Port	-	-	-	-	-
Gigabit Ethernet Port	8	10	8	8	8
Fast Ethernet Port	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-
1000Tx SFP Port	-	-	-	-	-
1G/10G SFP+ Port	2	2	4	4	4
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	8	8	8	8	4
PoE Ports (802.3bt)	-	-	-	-	2 (60W)
Combo Port	-	-	-	-	-
Mechanism					
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	72x145x118	72x145x118
Weight(kg)	0.88 kg	0.88 kg	0.90 kg	1.04 kg	0.90 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall
Environment					
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓
MRP	✓	Optional	✓	✓	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓
Software Feature					
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET				
Switch Property					
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	48 - 57VDC	48 - 57VDC	48 - 57VDC	12 - 57VDC	48 - 57VDC
Power Consumption (Sys.)	19W	21W	21W	22W	19W
PoE Power Budget	240W	240W	240W	190W (24VDC)	240W
Certification					
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓
EN50121-4	✓	✓	✓	✓	-

Industrial 10 Gigabit Layer 2 Managed Ethernet Switches



Model Name	KY-MH0804X4	KY-MQ0804X2	KY-MPX1604	KY-MP1604XB	KY-MPX2404
	PoE	PoE	PoE	PoE	PoE
Number of Port					
Max. Port	12	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-
Gigabit Ethernet Port	8	8	16	16	24
Fast Ethernet Port	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-
1000Tx SFP Port	-	-	-	-	-
1G/10G SFP+ Port	4	4	4	4	4
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	-	4	8	16	24
PoE Ports (802.3bt)	4 (60W)	2 (95W)	-	-	-
Combo Port	-	-	-	-	-
Mechanism					
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	91x145x118	91x145x118	440x44x420
Weight(kg)	0.90 kg	0.90 kg	1.03 kg	1.40 kg	6.00 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment					
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓
Software Feature					
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET				
Switch Property					
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	48 - 57VDC	90-264VAC,48-57VDC
Power Consumption (Sys.)	19W	19W	24W	21W	26W
PoE Power Budget	240W	240W	240W	240W	720W@DC ; Max. 377W@AC with derating (50°C to 70°C, 2.5%/°C)
Certification					
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	✓	✓

Industrial 10 Gigabit Layer 2 Managed Ethernet Switches



Model Name	KY-MSX0802	KY-MSX0804	KY-MSX0812	KY-MSX1604	KY-MSX2404	KY-MS2404XF
	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE
Number of Port						
Max. Port	10	12	20	20	28	28
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	8	8	16	24	-
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	8	-	-	24
1000Tx SFP Port	-	-	-	-	-	-
1G/10G SFP+ Port	2	4	4	4	4	4
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	-	-	-	-	-	-
PoE Ports (802.3bt)	-	-	-	-	-	-
Combo Port	-	-	-	-	-	-
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	91x145x118	91x145x118	440x44x420	440x44x331
Weight(kg)	0.88 kg	0.87 kg	1.38 kg	0.97 kg	5.00 kg	4.50 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount	Rack Mount
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	✓	✓	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature						
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, Modbus/TCP, Ethernet/IP, PROFINET					
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	12288 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	32 Mbits
Power Input	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	90 - 264VAC,24 -48VDC	90 - 264VAC,12 -36VDC 36-72VDC
Power Consumption (Sys.)	16W	16W	19W	17W	26W	30W
PoE Power Budget	-	-	-	-	-	-
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	-	-
EN50121-4	✓	✓	✓	✓	-	-

Industrial 10 Gigabit Layer 3 Managed Ethernet Switches



Model Name	KY-CPX0802	KY-CPX1002	KY-CPX0804	KY-CTX0804	KY-CH0804X2
	PoE	PoE	PoE	PoE	PoE
Number of Port					
Max. Port	10	12	12	12	12
10 Gigabit Ethernet Port	-	-	-	-	-
Gigabit Ethernet Port	8	10	8	8	8
Fast Ethernet Port	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-
1000Tx SFP Port	-	-	-	-	-
1G/10G SFP+ Port	2	2	4	4	4
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	8	8	8	8	4
PoE Ports (802.3bt)	-	-	-	-	2 (60W)
Combo Port	-	-	-	-	-
Mechanism					
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	72x145x118	72x145x118
Weight(kg)	0.88 kg	0.90 kg	0.90 kg	1.04 kg	0.90 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall
Environment					
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓
Software Feature					
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP, QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET				
Layer 3 Feature					
Static Routing	✓	✓	✓	✓	✓
VRRPv2	✓	✓	✓	✓	✓
OSPFv2	✓	✓	✓	✓	✓
RIP v1/v2	✓	✓	✓	✓	✓
Switch Property					
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbites	12 Mbites	12 Mbites	12 Mbites	12 Mbites
Power Input	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	12 - 57 VDC	48 - 57VDC
Power Consumption (Sys.)	19W	21W	21W	22W	19W
PoE Power Budget	240W	240W	240W	190W (24VDC)	240W
Certification					
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓
EN50121-4	✓	✓	✓	✓	-

E

Industrial 10 Gigabit Layer 3 Managed Ethernet Switches



Model Name	KY-CH0804X4	KY-CQ0804X2	KY-CPX1604	KY-CP1604XB	KY-CPX2404
	PoE	PoE	PoE	PoE	PoE
Number of Port					
Max. Port	12	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-
Gigabit Ethernet Port	8	8	16	16	24
Fast Ethernet Port	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-
1000Tx SFP Port	-	-	-	-	-
1G/10G SFP+ Port	4	4	4	4	4
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	-	4	8	16	24
PoE Ports (802.3bt)	4 (60W)	2 (95W)	-	-	-
Combo Port	-	-	-	-	-
Mechanism					
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	91x145x118	91x145x118	440x44x420
Weight(kg)	0.90 kg	0.90 kg	1.03 kg	1.40 kg	6.00 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment					
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓
Software Feature	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET				
Layer 3 Feature					
Static Routing	✓	✓	✓	✓	✓
VRRPv2	✓	✓	✓	✓	✓
OSPFv2	✓	✓	✓	✓	✓
RIP v1/v2	✓	✓	✓	✓	✓
Switch Property					
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbites	12 Mbites	12 Mbites	12 Mbites	12 Mbites
Power Input	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	48 - 57VDC	90-264VAC,48-57VDC
Power Consumption (Sys.)	19W	19W	19W	21W	26W
PoE Power Budget	240W	240W	240W	240W	720W@DC ; Max. 377W@AC with derating (50°C to 70°C, 2.5%/°C)
Certification					
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	-	-

E

Industrial 10 Gigabit Layer 3 Managed Ethernet Switches



Model Name	KY-CSX0802	KY-CSX0804	KY-CSX0812	KY-CSX1604	KY-CSX2404
	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE
Number of Port					
Max. Port	10	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-
Gigabit Ethernet Port	8	8	8	16	24
Fast Ethernet Port	-	-	-	-	-
100/1000Tx SFP Port	-	-	8	-	-
1000Tx SFP Port	-	-	-	-	-
1G/10G SFP+ Port	2	4	4	4	4
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	-	-	-	-	-
PoE Ports (802.3bt)	-	-	-	-	-
Combo Port	-	-	-	-	-
Mechanism					
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	91x145x118	91x145x118	440x44x420
Weight(kg)	0.88 kg	0.87 kg	1.38 kg	0.97 kg	5.00 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment					
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓
Software Feature					
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588/PTP , QoS, Modbus/TCP, Ethernet/IP, PROFINET				
Layer 3 Feature					
Static Routing	✓	✓	✓	✓	✓
VRRPv2	✓	✓	✓	✓	✓
OSPFv2	✓	✓	✓	✓	✓
RIP v1/v2	✓	✓	✓	✓	✓
Switch Property					
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	90-264VAC,24-48VDC
Power Consumption (Sys.)	16W	16W	19W	17W	26W
PoE Power Budget	-	-	-	-	-
Certification					
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	✓	-

COMPARISON TABLE | DYMEC

Industrial Gigabit Layer 2 Managed Ethernet Switches



Model Name	KY-MPG0802	KY-MTG0802	KY-MPG1002	KY-MTG1002	KY-MPG0804	KY-MTG0804
	PoE	PoE	PoE	PoE	PoE	PoE
Number of Port						
Max. Port	10	10	12	12	12	12
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	8	10	10	8	8
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-	-
1000Tx SFP Port	2	2	2	2	4	4
1G/10G SFP+ Port	-	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	8	8	8	8	8	8
PoE Ports (802.3bt)	-	-	-	-	-	-
Combo Port	-	-	-	-	-	-
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	72x145x118	72x145x118	72x145x118
Weight(kg)	0.88 kg	1.02kg	0.88 kg	1.12 kg	0.90 kg	1.04 kg
Mounting	DIN-Rail, Wall	DIN-Rail, Wall	DIN-Rail, Wall	DIN-Rail, Wall	DIN-Rail, Wall	DIN-Rail, Wall
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	✓	✓	Optional	Optional	✓	✓
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature						
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay(Optional82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET					
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	48 - 57 VDC	12 - 57 VDC	48 - 57 VDC	12 - 57 VDC	48 - 57 VDC	12 - 57 VDC
Power Consumption (Sys.)	16W	17W	16W	16W	19W	22W
PoE Power Budget	240W	190W (24VDC)	240W	190 W (24VDC)	240W	190 W (24VDC)
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	✓
EN50121-4	✓	✓	✓	✓	✓	✓

Industrial Gigabit ▴ Layer 2 Managed Ethernet Switches



Model Name	KY-MH0804G2	KY-MH0804G4	KY-MQ0804G2	KY-MPG1604	KY-MP1604GB	KY-MPG2404
	PoE	PoE	PoE	PoE	PoE	PoE
Number of Port						
Max. Port	12	12	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	8	8	16	16	24
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-	-
1000Tx SFP Port	4	4	4	4	4	4
1G/10G SFP+ Port	-	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	4	-	4	8	16	24
PoE Ports (802.3bt)	2 (60W)	4 (60W)	2 (95W)	-	-	-
Combo Port	-	-	-	-	-	-
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	91x145x118	91x145x118	440x44x331
Weight(kg)	0.90 kg	0.90 kg	0.90 kg	1.40 kg	1.40 kg	6.00 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET					
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	90-264VAC,48-57VDC
Power Consumption (Sys.)	19W	19W	19W	22W	16W	19W
PoE Power Budget	240W	240W	240W	240W	240W	720W@DC ; Max. 377W@AC with derating (50°C to 70°C, 2.5%/°C)
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	✓	✓	✓

Industrial Gigabit ▴ Layer 2 Managed Ethernet Switches



Model Name	KY-MSG0802	KY-MSG1002	KY-MSG0804	KY-MSG0812	KY-MSG1604	KY-MSG2404-8C
	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE
Number of Port						
Max. Port	10	12	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	10	8	8	16	16
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	8	-	-
1000Tx SFP Port	2	2	4	4	4	4
1G/10G SFP+ Port	-	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	-	-	-	-	-	-
PoE Ports (802.3bt)	-	-	-	-	-	-
Combo Port	-	-	-	-	-	8
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	91x145x118	91x145x118	440x44x331
Weight(kg)	0.85 kg	0.87kg	0.87 kg	1.38 kg	0.97 kg	4.48 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment						
Operating Temperature	-40 C to 85 C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40 C to 85 C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	✓	Optional	✓	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, Modbus/TCP, Ethernet/IP, PROFINET					
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	90-264VAC,12-48VDC
Power Consumption (Sys.)	13W	14W	14W	19W	17W	30W
PoE Power Budget	-	-	-	-	-	-
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	✓	✓	-

Industrial Gigabit Layer 3 Managed Ethernet Switches



Model Name	KY-CPG0802	KY-CTG0802	KY-CPG1002	KY-CTG1002	KY-CPG0804	KY-CTG0804
	PoE	PoE	PoE	PoE	PoE	PoE
Number of Port						
Max. Port	10	10	12	12	12	12
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	8	10	10	8	8
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-	-
1000Tx SFP Port	2	2	2	2	4	4
1G/10G SFP+ Port	-	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	8	8	8	8	8	8
PoE Ports (802.3bt)	-	-	-	-	-	-
Combo Port	-	-	-	-	-	-
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	72x145x118	72x145x118	72x145x118
Weight(kg)	0.88 kg	1.02 kg	0.88 kg	1.12 kg	0.90 kg	1.04 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature						
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET					
Layer 3 Feature						
Static Routing	✓	✓	✓	✓	✓	✓
VRRPv2	✓	✓	✓	✓	✓	✓
OSPFv2	✓	✓	✓	✓	✓	✓
RIP v1/v2	✓	✓	✓	✓	✓	✓
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	48 - 57 VDC	12 - 57 VDC	48 - 57 VDC	12 - 57VDC	48 - 57VDC	12 - 57VDC
Power Consumption (Sys.)	16W	17W	16W	16W	17W	22W
PoE Power Budget	240W	190W (24VDC)	240W	190W (24VDC)	240W	190W (24VDC)
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	✓
EN50121-4	✓	✓	✓	✓	✓	✓

E

Industrial Gigabit Layer 3 Managed Ethernet Switches



Model Name	KY-CH0804G2	KY-CH0804G4	KY-CQ0804G2	KY-CPG1604	KY-CP1604GB	KY-CPG2404
	PoE	PoE	PoE	PoE	PoE	PoE
Number of Port						
Max. Port	12	12	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	8	8	16	16	24
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	-	-	-
1000Tx SFP Port	4	4	4	4	4	4
1G/10G SFP+ Port	-	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	4	-	4	8	16	24
PoE Ports (802.3bt)	2 (60W)	4 (60W)	2 (95W)	-	-	-
Combo Port	-	-	-	-	-	-
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	91x145x118	91x145x118	440x44x331
Weight(kg)	0.90 kg	0.90 kg	0.90 kg	1.40 kg	1.40 kg	6.00 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature						
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET					
Layer 3 Feature						
Static Routing	✓	✓	✓	✓	✓	✓
VRRPv2	✓	✓	✓	✓	✓	✓
OSPFv2	✓	✓	✓	✓	✓	✓
RIP v1/v2	✓	✓	✓	✓	✓	✓
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	48 - 57 VDC	48 - 57 VDC	48 - 57 VDC	48 - 57VDC	48 - 57VDC	90 - 264VAC,48 - 57VDC
Power Consumption (Sys.)	19W	19W	19W	22W	16W	19W
PoE Power Budget	240W	240W	240W	240W	240W	720W@DC ; Max. 377W@AC with derating (50°C to 70°C, 2.5%/°C)
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	✓	-	-

E

Industrial Gigabit Layer 3 Managed Ethernet Switches



Model Name	KY-CSG0802	KY-CSG1002	KY-CSG0804	KY-CSG0812	KY-CSG1604	KY-CSG2404-8C
	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE	non-PoE
Number of Port						
Max. Port	10	12	12	20	20	28
10 Gigabit Ethernet Port	-	-	-	-	-	-
Gigabit Ethernet Port	8	10	8	8	16	16
Fast Ethernet Port	-	-	-	-	-	-
100/1000Tx SFP Port	-	-	-	8	-	-
1000Tx SFP Port	2	2	4	4	4	4
1G/10G SFP+ Port	-	-	-	-	-	-
Fix Fiber Port	-	-	-	-	-	-
PoE Ports (802.3at)	-	-	-	-	-	-
PoE Ports (802.3bt)	-	-	-	-	-	-
Combo Port	-	-	-	-	-	8
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	72x145x118	72x145x118	72x145x118	91x145x118	91x145x118	440x44x331
Weight(kg)	0.85 kg	0.87 kg	0.87 kg	1.38 kg	0.97 kg	4.80 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack Mount
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature						
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET					
Layer 3 Feature						
Static Routing	✓	✓	✓	✓	✓	✓
VRRPv2	✓	✓	✓	✓	✓	✓
OSPFv2	✓	✓	✓	✓	✓	✓
RIP v1/v2	✓	✓	✓	✓	✓	✓
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbites	12 Mbites	12 Mbites	12 Mbites	12 Mbites	12 Mbites
Power Input	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	12 - 48 VDC	90- 264VAC, 12-48VDC
Power Consumption (Sys.)	13W	14W	14W	19W	17W	30W
PoE Power Budget	-	-	-	-	-	-
Certification						
CE / FCC / NEMA TS-2	✓	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	-
EN50121-4	✓	✓	✓	✓	✓	-

COMPARISON TABLE | DYMEC

Compact Size Switch Layer 2 Managed Ethernet Switches



Model Name	KY-MP0802GE	KY-MS0802GE	KY-MP0402GE	KY-MS0402GE
	PoE	non-PoE	PoE	non-PoE
Number of Port				
Max. Port	10	10	6	6
10 Gigabit Ethernet Port	-	-	-	-
Gigabit Ethernet Port	8	8	4	4
Fast Ethernet Port	-	-	-	-
100/1000Tx SFP Port	-	-	-	-
1000Tx SFP Port	2	2	2	2
1G/10G SFP+ Port	-	-	-	-
Fix Fiber Port	-	-	-	-
PoE Ports (802.3at)	8	-	4	-
PoE Ports (802.3bt)	-	-	-	-
Combo Port	-	-	-	-
Mechanism				
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum
Protection Class	IP30	IP30	IP30	IP30
Dimensions(mm)	50x120x100	50x120x100	50x120x100	50x120x100
Weight(kg)	1.0 kg	0.7 kg	0.8 kg	0.5 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall
Environment				
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy				
STP/RSTP	✓	✓	✓	✓
MSTP	✓	✓	✓	✓
ERPS	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓
Software Feature				
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay(Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET			
Switch Property				
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K
Packet Buffer Size	4 Mbits	4 Mbits	4 Mbits	4 Mbits
Power Input	48 - 57 VDC	12 - 48 VDC	48 - 57 VDC	12 - 48 VDC
Power Consumption (Sys.)	18W	15W	18W	15W
PoE Power Budget	240W	-	240W	-
Certification				
CE / FCC / NEMA TS-2	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓
EN50121-4	-	-	-	-

Industrial Unmanaged Ethernet Switches



Model Name	KY-ES0500L-M12	KY-ES0500LA	KY-ES0800LA	KY-ES0401G
	non-PoE	non-PoE	non-PoE	non-PoE
Number of Port				
Max. Port	5	5	8	5
Gigabit Ethernet Port	-	-	-	4
Fast Ethernet Port	5 (M12)	5	8	-
100/1000Tx SFP Port	-	-	-	-
1000Tx SFP Port	-	-	-	1
Fix Fiber Port	-	-	-	-
PoE Ports (802.3at)	-	-	-	-
PoE Ports (802.3bt)	-	-	-	-
Mechanism				
Enclosure	Plastic	Aluminum	Aluminum	SECC
Protection Class	IP67	IP30	IP30	IP30
Dimensions(mm)	33x217x43	25x130x98	30x142x98	30x140x98
Weight(kg)	0.3 kg	0.32 kg	0.37 kg	0.6 kg
Mounting	Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall
Environment				
Operating Temperature	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy				
STP/RSTP	-	-	-	-
MSTP	-	-	-	-
ERPS	-	-	-	-
MRP	-	-	-	-
Port Trunking / LACP	-	-	-	-
Software Feature				
	-			
Layer 3 Feature				
Static Routing	-	-	-	-
OSPFv2	-	-	-	-
RIP v1/v2	-	-	-	-
TTDP/TRDP	-	-	-	-
Switch Property				
Jumbo Frame Support	-	-	-	9600bytes
MAC Table Size	1K	1K	2K	2K
Packet Buffer Size	448 Kbits	448 Kbits	768 Kbits	1 Mbits
Power Input	12 - 48VDC	12 - 56V DC Terminal Block (2-pin 5mm) or 5.5/2	12 - 56V DC Terminal Block (2-pin 5mm) or 5.5/2	12 - 48VDC
Power Consumption (Sys.)	2W	4W	5W	5W
PoE Power Budget	-	-	-	-
Certification				
CE / FCC / UL / NEMA-TS-2	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓
IEC61000-6-2 / -6-4	-	-	-	-

Industrial Unmanaged Ethernet Switches



Model Name	KY-ES0500GA	KY-ES0800GA	KY-ESG0802	KY-ESG1600	KY-EPG0401
	non-PoE	non-PoE	non-PoE	non-PoE	PoE
Number of Port					
Max. Port	5	8	10	16	5
Gigabit Ethernet Port	5	8	8	16	4
Fast Ethernet Port	-	-	-	-	-
100/1000Tx SFP Port	-	-	2	-	-
1000Tx SFP Port	-	-	-	-	1
Fix Fiber Port	-	-	-	-	-
PoE Ports (802.3at)	-	-	-	-	4
PoE Ports (802.3bt)	-	-	-	-	-
Mechanism					
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	SECC
Protection Class	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	30x142x98	30x142x98	50x120x100	45x136x95	30x140x98
Weight(kg)	0.35 kg	0.37 kg	0.7 kg	0.5 kg	0.7 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall
Environment					
Operating Temperature	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)	-40° ~ +85°C (-40° ~ 185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy					
STP/RSTP	-	-	-	-	-
MSTP	-	-	-	-	-
ERPS	-	-	-	-	-
MRP	-	-	-	-	-
Port Trunking / LACP	-	-	-	-	-
Software Feature					
	-				
Layer 3 Feature					
Static Routing	-	-	-	-	-
OSPFv2	-	-	-	-	-
RIP v1/v2	-	-	-	-	-
TTDP/TRDP	-	-	-	-	-
Switch Property					
Jumbo Frame Support	9216bytes	9216bytes	9600bytes	9600bytes	9600bytes
MAC Table Size	4K	4K	8K	8K	2K
Packet Buffer Size	1.5 Mbits	1.5 Mbits	4 Mbits	4 Mbits	1 Mbits
Power Input	12 - 48VDC	12 - 56V DC Terminal Block (2-pin 5mm) or 5.5/2	12 - 48VDC	12 - 48VDC	48 - 57VDC
Power Consumption (Sys.)	6W	6W	15W	15W	5W
PoE Power Budget	-	-	-	-	120W
Certification					
CE / FCC / UL / NEMA-TS-2	✓	✓	✓	✓	✓
NSA / Service Control	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	-	-	✓	✓	-

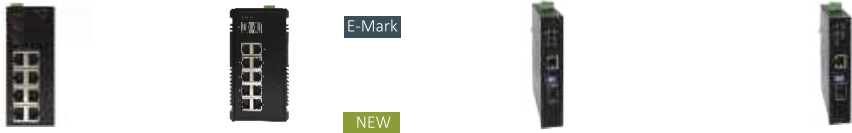
ITS INDUSTRIAL 3170 SERIES - TRAFFIC / DOT



Model Name	KY-3170EM4	KY-3170EM4/2	KY-3170EM4-P	KY-3170XM	KY-3170XR	KY-3100EM
			PoE			
Number of Port						
Max. Port	10	10	10	10	10	10
10 Gigabit Ethernet Port						
Gigabit Ethernet Port	6	6	6	6	6	8
Fast Ethernet Port						
100/1000Tx SFP Port						
1000Tx SFP Port	4	4	4			2
1G/10G SFP+ Port				4	4	
Fix Fiber Port						
PoE Ports (802.3at)						
PoE Ports (802.3bt)			6			
Combo Port						
Mechanism						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	SECC/Aluminum
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	58 x 114 x 205	58 x 114 x 205	58 x 114 x 205	58 x 114 x 205	58 x 114 x 205	72x145x118
Weight(kg)	0.87 kg	0.87 kg	0.87 kg	0.87 kg	0.87 kg	0.88 kg
Mounting	Rack Mount	Rack Mount	Rack Mount	Rack Mount	Rack Mount	DIN-Rail,Wall
Environment						
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy						
STP/RSTP	✓	✓	✓	✓	✓	✓
MSTP	✓	✓	✓	✓	✓	✓
ERPS	✓	✓	✓	✓	✓	✓
MRP	Optional	Optional	Optional	Optional	Optional	Optional
Port Trunking / LACP	✓	✓	✓	✓	✓	✓
Software Feature						
	802.1X, IPv6, Storm Control, UPnP, SNMP v1/v2c/v3, Event Warning, Port Mirror, LLDP, DHCP Server, DHCP Relay (Option82), USB Configuration, 802.1Q VLAN, VLAN Q-in-Q, IGMP Snooping/MLD Snooping, IEEE 1588 v2/PTP , QoS, PoE Control, Modbus/TCP, Ethernet/IP, PROFINET					
Layer 3 Feature						
Static Routing					✓	
VRRPv2					✓	
OSPFv2					✓	
RIP v1/v2					✓	
Switch Property						
Jumbo Frame Support	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes	9216 bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits	12 Mbits
Power Input	12~48 VDC	12~48 VDC	48~57 VDC	12~48 VDC	12~48 VDC	12~48 VDC
Power Consumption (Sys.)	16W	17W	16W	16W	17W	22W
NSA /Service Control	✓	✓	✓	✓	✓	✓
Certification						
CE / FCC / UL	✓	✓	✓	✓	✓	✓
NEMA TS-2	✓	✓	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓	✓	✓
EN50121-4	✓	✓	✓	✓	✓	✓

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COMPARISON TABLE | DYMEC



Model Name	KY-EPG0802	KY-ET1002G	KY-IM0101G	KY-IP0101G
	PoE	PoE	non-PoE	PoE
Number of Port				
Max. Port	10	12	2	2
Gigabit Ethernet Port	8	10	1	1
Fast Ethernet Port	-	-	-	-
100/1000Tx SFP Port	2	-	1	1
1000Tx SFP Port	-	2	-	-
Fix Fiber Port	-	-	-	-
PoE Ports (802.3at)	8	8	-	1 (Up to 60W)
PoE Ports (802.3bt)	-	-	-	-
Mechanism				
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum
Protection Class	IP30	IP30	IP30	IP30
Dimensions(mm)	50x120x100	72x145x118	24x131x97	24x130x97
Weight(kg)	0.67 kg	0.75 kg	0.3 kg	0.31 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall*	DIN-Rail,Wall*
Environment				
Operating Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Storage Temperature	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)	-40°C to 85°C (-40°F to -185°F)
Network Redundancy				
STP/RSTP	-	-	-	-
MSTP	-	-	-	-
ERPS	-	-	-	-
MRP	-	-	-	-
Port Trunking / LACP	-	-	-	-
Software Feature				
	-			
Layer 3 Feature				
Static Routing	-	-	-	-
OSPFv2	-	-	-	-
RIP v1/v2	-	-	-	-
Switch Property				
Jumbo Frame Support	9600bytes	9600bytes	-	-
MAC Table Size	8K	8K	-	-
Packet Buffer Size	4 Mbits	4 Mbits	-	-
Power Input	48 - 57VDC	12 - 57VDC	12 - 56VDC	44 - 57VDC
Power Consumption (Sys.)	10W	14W	10W	10W
PoE Power Budget	240W	240W	-	60W
Certification				
CE / FCC	✓	✓	✓	✓
UL	✓	✓	✓	✓
IEC61000-6-2 / -6-4	✓	✓	✓	✓

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