DYMEC
AMERICAN INDUSTRIAL

Industrial Ethernet Product Guide

- 10G Core Switch
- SyncE Switch
- PoE Switch
- EN 50155 Switch for Transportation & Automation
- IEC 61850-3 Switch for Power Substation
- FieldBus (ProfiBus, ModBus, CAN Bus)



DYMEC.com
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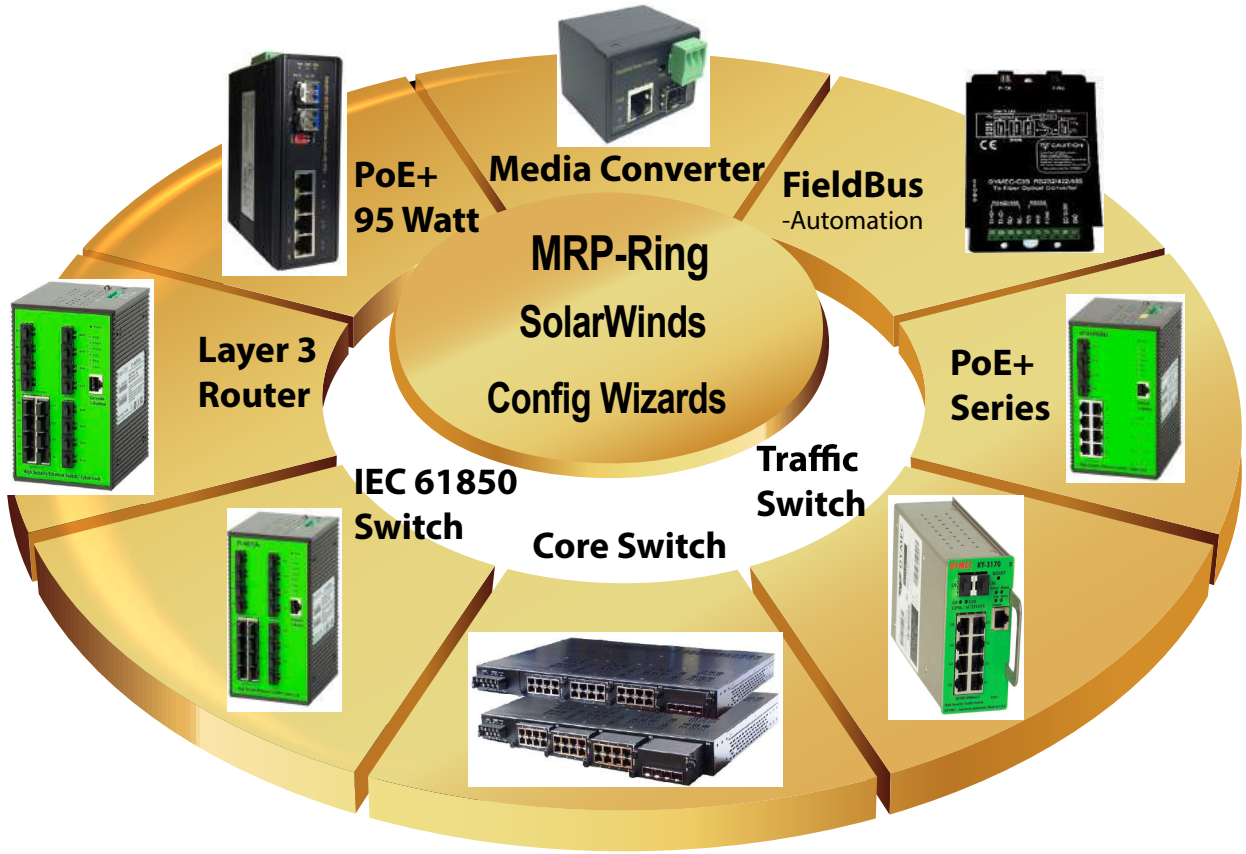
EN50155 NEMA TS2 IEC 61850-3 EN50121-4 EN61000-6-2 EN61000-6-4 ISO 9001 ISO 14001 c UL us

e-catalog

DYMEC
Industrial Ethernet
Product Categories



Designing with the latest Ethernet and Power over Ethernet technologies, DYMEC has transformed the "Industrial Internet" market place with a wide range of rugged, secure, Industrial Ethernet products for security, public utilities, transportation, industrial, SCADA, and power . Sub-station deployments. DYMEC engineering has a focus on reliability, certifications, new standards and cyber-security. **DYMEC delivers the "Best in Class" products for the Industrial Internet of Things (IIOT) - aka "the important things"**



Why We're Reliable

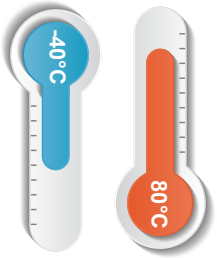
Certifications

- Safety UL60950-1
- Trackside EN50121-4
- On-Board Train EN50155
- Power Substation IEC 61850-3
- Heavy Industrial EN61000-6-4/6-2
- Traffic Control (ITS) NEMA TS-2



SolarWinds

- Centralized Management
- Device Monitoring & Management
- Long Term Event Storage (up to 1 Year)
- Performance Monitoring
- Remote Access Management



Harsh Environment

- IP67 Waterproof
- Wide Temperature
- Industrial Grade Component Inside
- High MTBF
- Fanless

Liimited Lifetime Warranty



Configuration Wizard

- Mass Deployment
- Quick Install/Config
- Device Auto Discovery
- Backup/Restore Configuration
- Firmware Upgrade

DYMEC
Industrial Internet Core
Layer 2 / Layer 3 Switching & Routing

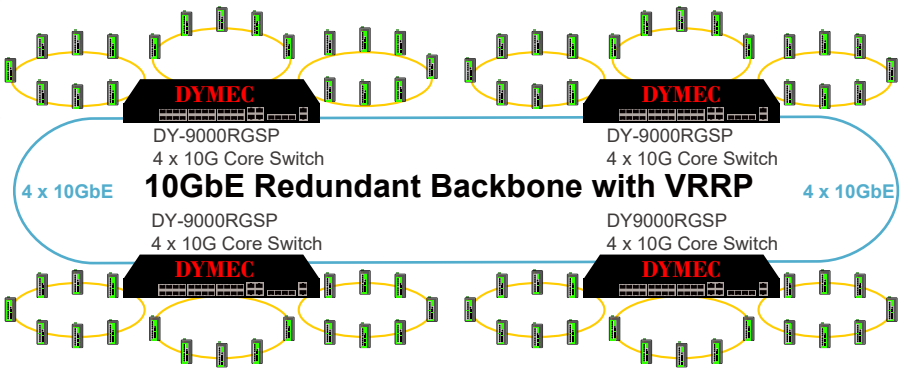




UL60950-1 · EN50121-4 · EN61000-6-2 EN61000-6-4 · IPV6 · SolarWinds · MRP Ring

Features

- 2/4x 10GbE SFP+ and 24x GbE SFP with 4x Combo
- Redundant & wide range power inputs (12, 24/48VDC) 110/220 Volts AC - 50/60 Hz
- Layer 3 Routing & Layer 2 Switching RS-232 console port supports KY-1-Button
- MRP / ERPS Ring Technology
- SolarWinds for Superior Management
- 1 RU / Dual Power Supplies
- OSPF, IP, VRRP, Multi-Cast, IEEE1588v2 (Precision Timing), VLAN, LACP, IGMP, ACL, SNMP, DHCP, HTTP, HTTPS, IPv6, MIB II, QoS, CoS, Cyber-Secure Video



10GbE Backbone with MRP & ERPS Ring Technology

DYMEC
Industrial SyncE Switch
IEEE 1588v2

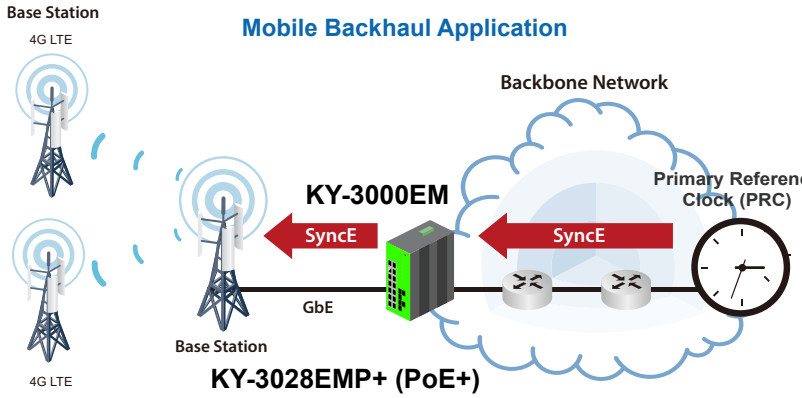


UL60950-1 · EN50121-4 · EN61000-6-2 EN61000-6-4 · IPV6 · SolarWinds · MRP Ring

DYMEC's SyncE Switch Series supports timing synchronization features (SyncE & IEEE 1588 PTP v2) that allow operators to deliver services with optimal stability and continuity in end to end connectivity. SyncE and IEEE1588 PTP V2 are useful in mobile backhaul applications.

Features

- 8/16x 10/100/1000Base-T RJ45 and 4/8x 100/1000Base-X SFP Fiber with SyncE
- Supports SyncE Ethernet allowing service delivery with optimal stability and continuity in end-to-end connectivity
- Supports IEEE1588v2 PTP for precise time synchronization operate in Ordinary-Boundary / Transparent Clock, End to End Transparent Clock, Master / Slave Mode
- Supports KY-1-Button - Data Back-Up Dongle (Used for Easy Manitenance Support & Deployment)
- MRP -Ring for Redundant Cabling



DYMEC
Industrial Power Over Ethernet + BLACK Series





Miniature Media Converter

UL60950-1 · EN50121-4 · NEMA TS2 · EN61000-6-2 EN61000-6-4 · IEEE 1588v2

PoE Switch



Features

- Redundant Dual Power inputs: 48 Volts DC Output (12 ~ 57 Volts DC Input)
- High Efficiency Voltage Booster Technology (95%~98%)
- Regulated output voltage for PoE/PoE+ output / 4KV Surge Protection for PoE port
- Supports Jumbo Frames
- 2.5 KV DC Hi-pot isolation protection for Ethernet Ports and Power Inputs
- UL Class 1 Divison 2 (Hazardous Area)
- Supports 15 / 30 / 60 & 95 Watt (PoE / PoE+ / PoE++ / UPoE)
- IP40 Protection / Military Grade
- Redundant Ports for Reliability
- Limited Lifetime Warranty

PoE Media Converter



Features

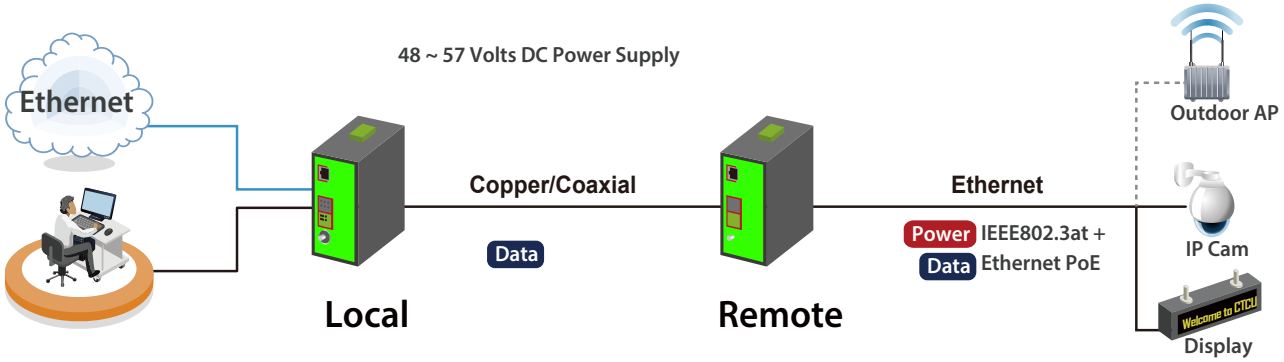
- Redundant Dual Power inputs: 48 Volts DC Output (48 ~ 57 Volts DC Input)
- 15 / 30 / 60 & 95 Watt (PoE, PoE+, PoE++, UPoE)
- SFP Fiber Optics for Variable Distance (Up To 120 KM)
- UL Class 1 Divison 2 (Hazardous Area)
- IP40 Protection / Military Grade
- Supports Jumbo Frames
- Limited Lifetime Warranty

PoE Extender

CE · FC · EN50121-4 · EN61000-6-2 EN61000-6-4

Features

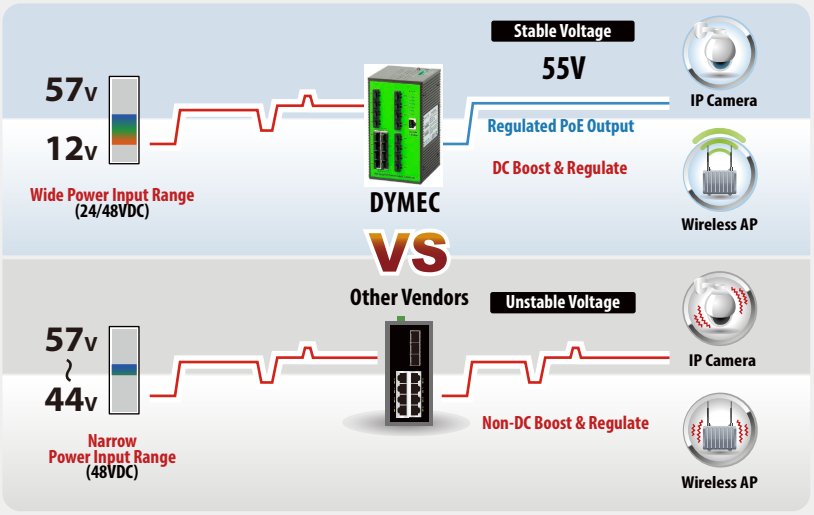
- Long transmission distance up to 1200 meters
- Complies with IEEEE 802.3af/at PoE
- Simultaneous transmission of Ethernet data and PoE Power over Coaxial cable
- 4 x 10/100Base(T)X RJ-45 PSE Ports (60 Watt Power Budget)
- 1 x BNC (75 Ohm) Coaxial Port



DYMEC PoE+ Key Features

■ High Efficiency Voltage Booster Technology for PoE+

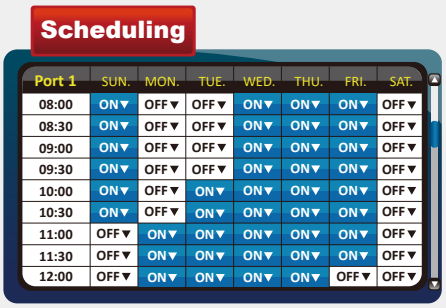
- Regulated PoE output voltage to stabilize PoE device
- PoE power distance to 100meter
- Wide range input power 24/48VDC (20~57VDC)
- High efficiency (94~97%) PoE Voltage Booster



- Offer weekly PoE ON/OFF scheduling function to

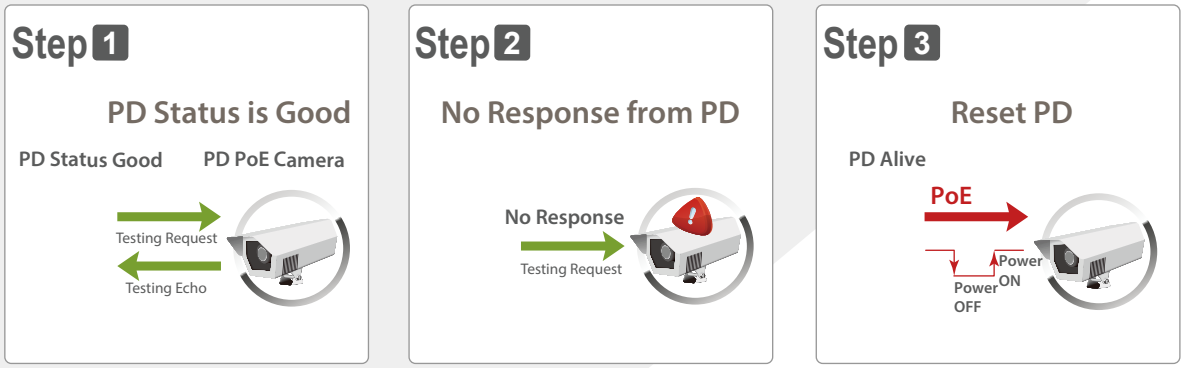
■ Weekly PoE ON/OFF Scheduling

- **Offers IEEE 802.3az: daily / weekly PoE ON/OFF Scheduling, Reset, Keep Alive Functions for Power over Ethernet Links.**
- **Reduce operational expenses.**



■ Remote PD Auto Test & Reset

- PoE PD failure auto checking - provides auto reset if powered device (PD) Fails
- This feature helps to reduce operational & maintenance expences / costs.



Our PoE Switch can regularly send test packets to the connected PD devices so that users can know the real-time condition of the remote PD devices without paying on-site visits.

If PoE Switch does not receive responses from the connected PD devices for a certain period,

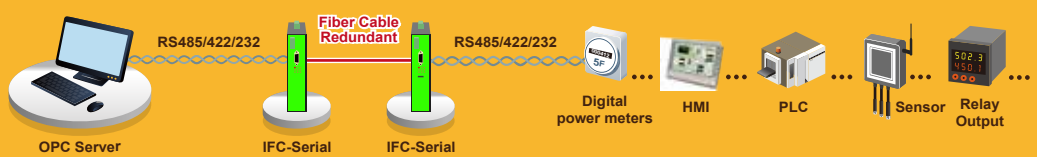
the PoE switch can initiate a reset action automatically to power down and power up the connected PD devices.

FieldBus Fiber Converter

ModBus
ProfiBus
CAN Bus

Features

- Extend serial RS232/422/485 transmission distance by fiber 2 ~ 120 KM
- Supports several fiber topologies, ring & cable redundancy, daisy chain & point to point
- Protocol transparent and engineered for all serial transmission protocols - such as: CANbus, ProfiBus, ModBus (Auto Baud Rate Capable)
- 2.5KV Electrical isolation for serial ports



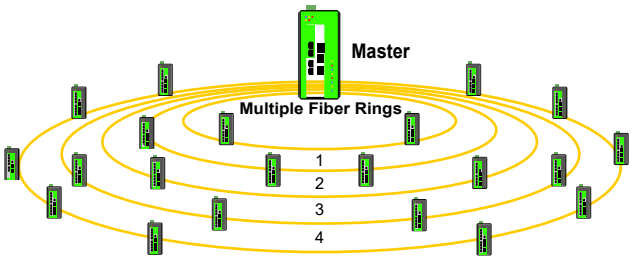
Benefits

1 EMC/noise isolation interference between serial port device
2 Extend distance by fiber
3 Cable redundancy
4 Achieve a reliable network environment



Open-Ring Network Redundancy

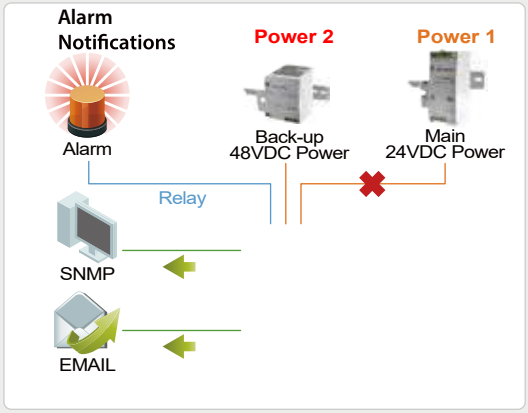
The DYMEC Fiber Ring Technology provides Network Designers maximum flexibility and advantage.



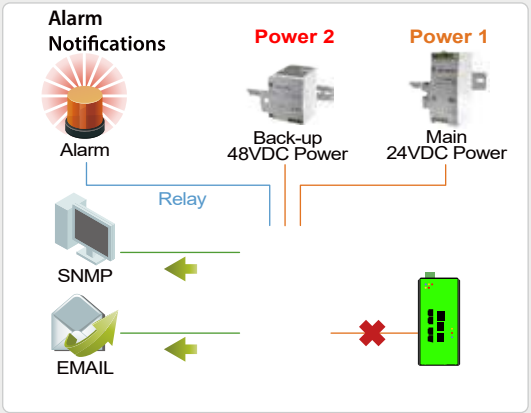
- Open Ring, Chain Ring, MRP Ring
- Multiple Ring Support
- MRP Supports Up To 50 Switches / <30 ms Convergence
- MRP Recovery Time - <30ms / 50 Switches
- Easy Configuration GUI

Multiple - Real Time Alarm Notifications

- Send a Notification Email
- SNMP trap
- Alarm relay
- LED indicator
- Selected alarm events (Power Failure, Link Up & Down, PoE Status Trap, Authentication, Warm & Cold Start)



Alarms for Main Power Failure Event



Alarms for Main Port Link Down

IEEE 802.3az Green Power

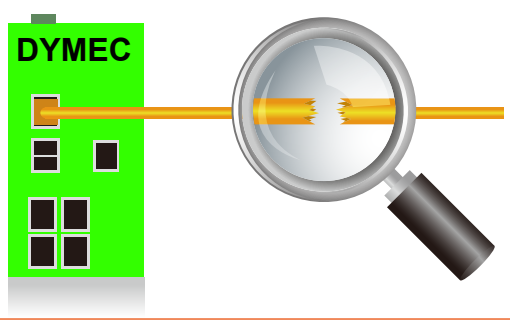
Reduce power consumption in following cases for saving power:

- **Ports in idle state**
- **Output power dependent on cable length**
- **During periods of low data activity**



VeriPhy Cable Diagnostics

- The feature is useful in troubleshooting Ethernet cabling problems especially for Ethernet UTP cables buried or hidden underground.
- The diagnostic results reveal cable states (shorts or open connections) the length of cable and distances to the faults.



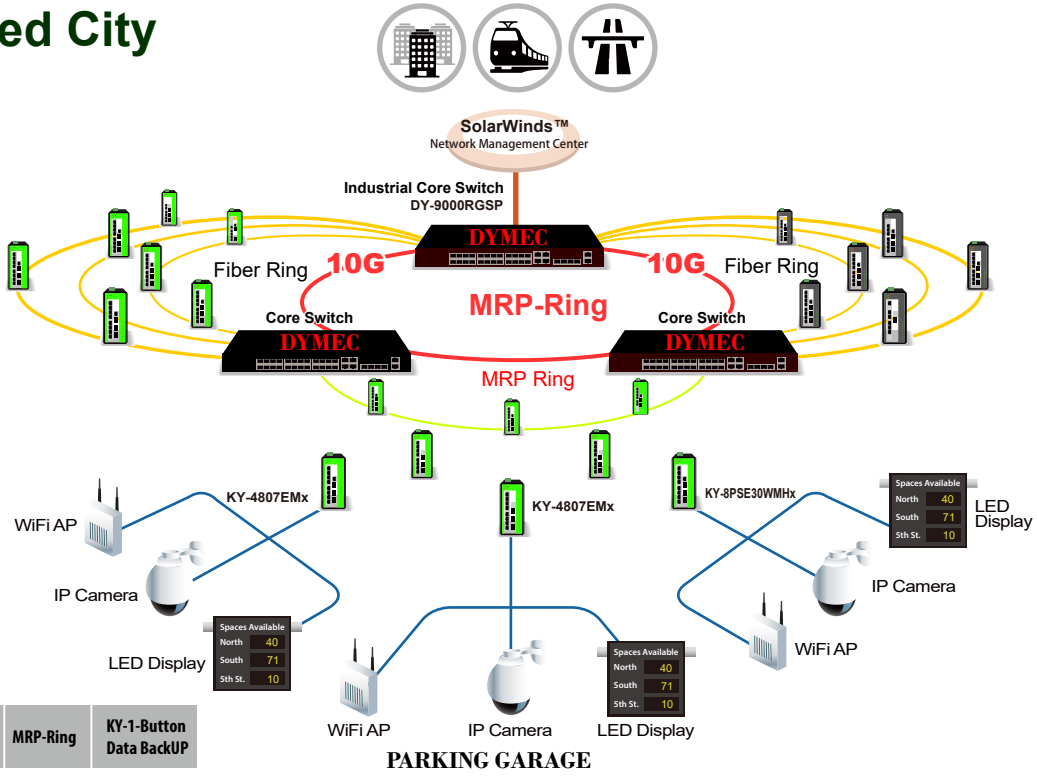
DYMEC Smart City Applications



10G Smart-Connected City Backbone



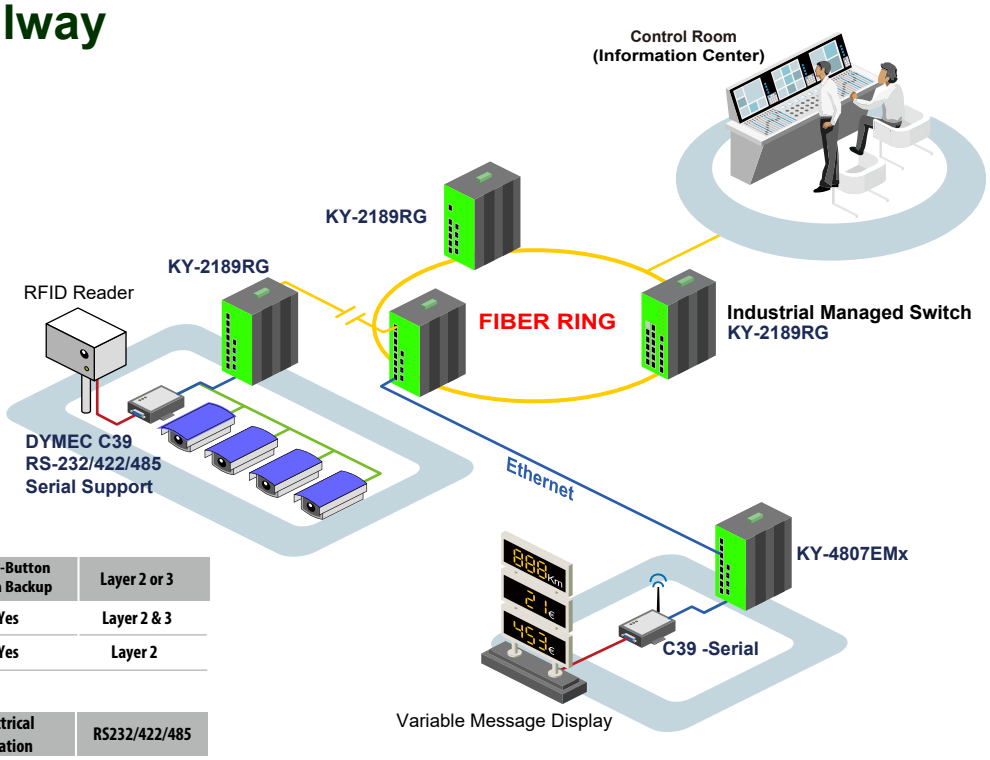




Model Name	10G GbE SFP+	Modular	10/100/1000Base-T 100/1000Base-X Combo	MRP-Ring	KY-1-Button Data BackUP
DY-9000RGSP	4 SFP+	3	(Up to 24)	Yes	Yes
KY-3100Tx	2 SFP+	No	8 X 10/100/1000Base(T)X	Yes	Yes

Transportation / Tollway



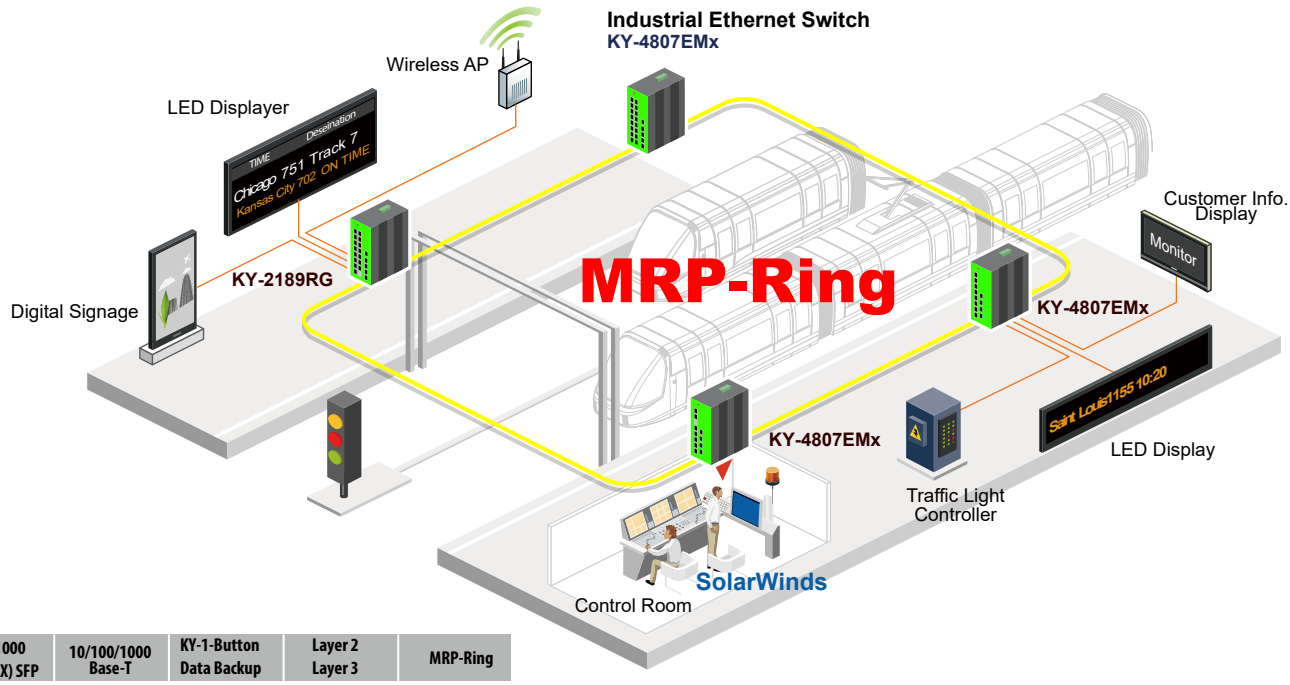


Model Name	100/1000Base(X)	10/100Base(T)X	KY-1-Button Data Backup	Layer 2 or 3
KY-2189RG	12	8	Yes	Layer 2 & 3
KY-4807EMx	13	8	Yes	Layer 2

Model Name	10/100Base-TX	Single-mode Multi-mode	Electrical Isolation	RS232/422/485
DYMEC C39S	1	Single-mode	Yes	1- Switch Selectable
DYMEC C39	1	Multi-mode	Yes	1- Switch Selectable

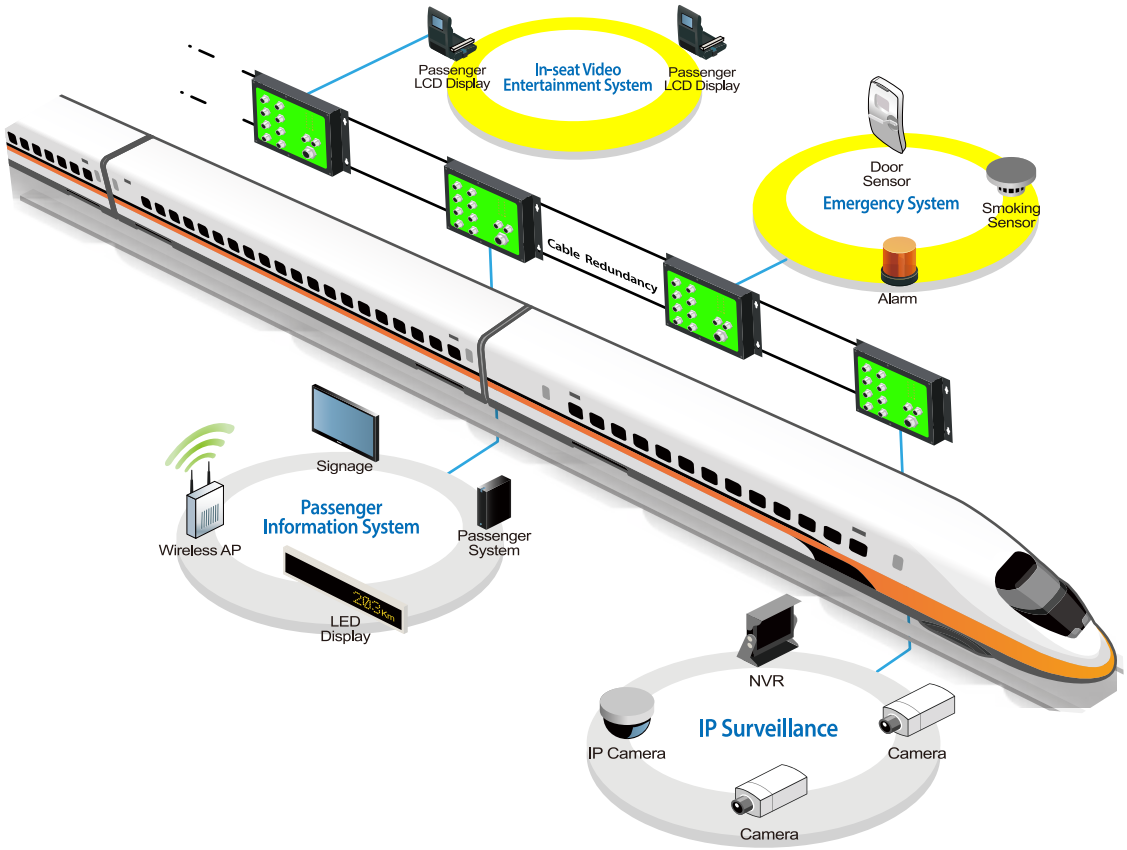


Railway Trackside



Model Name	100/1000 Base(X) SFP	10/100/1000 Base-T	KY-1-Button Data Backup	Layer 2 Layer 3	MRP-Ring
KY-2189RG	12 SFP	8	Yes	Layer 2 & 3	Yes
KY-4807EMx	12 SFP	8	Yes	Layer 2	Yes

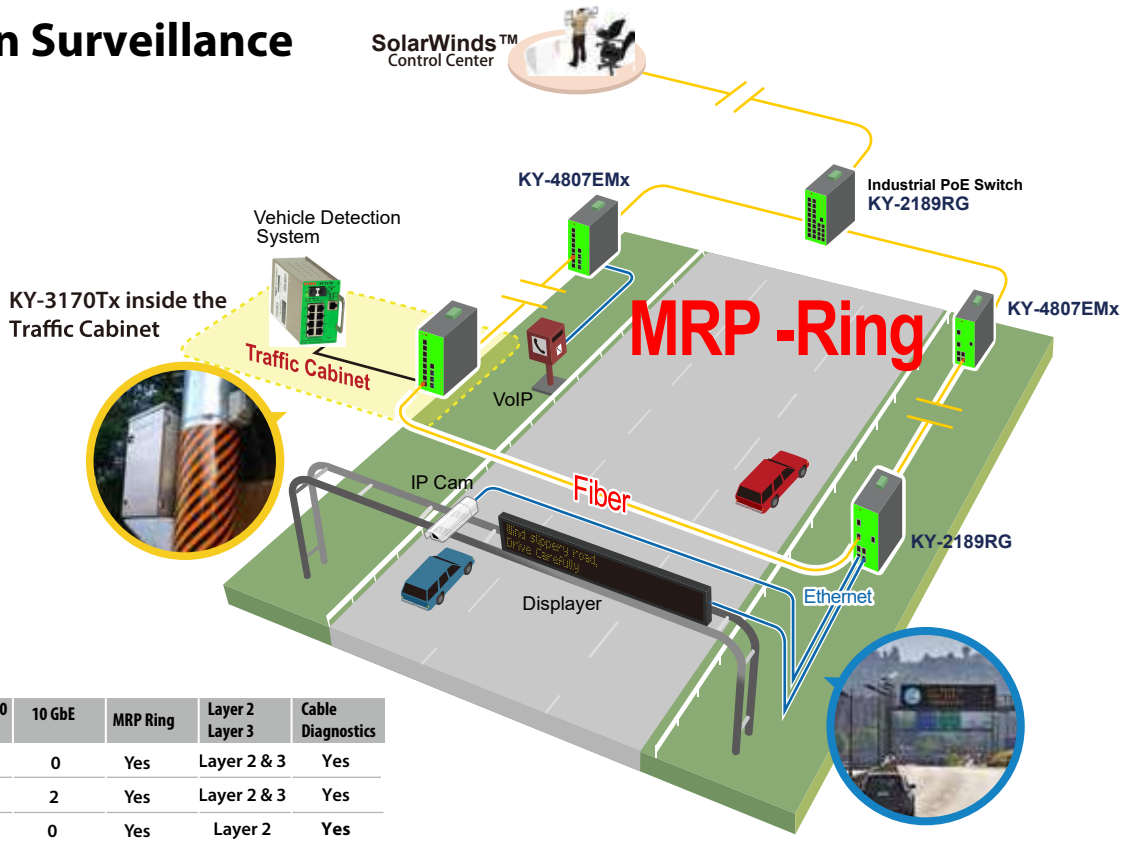
Onboard Train



DYMEC SmartStreet Applications

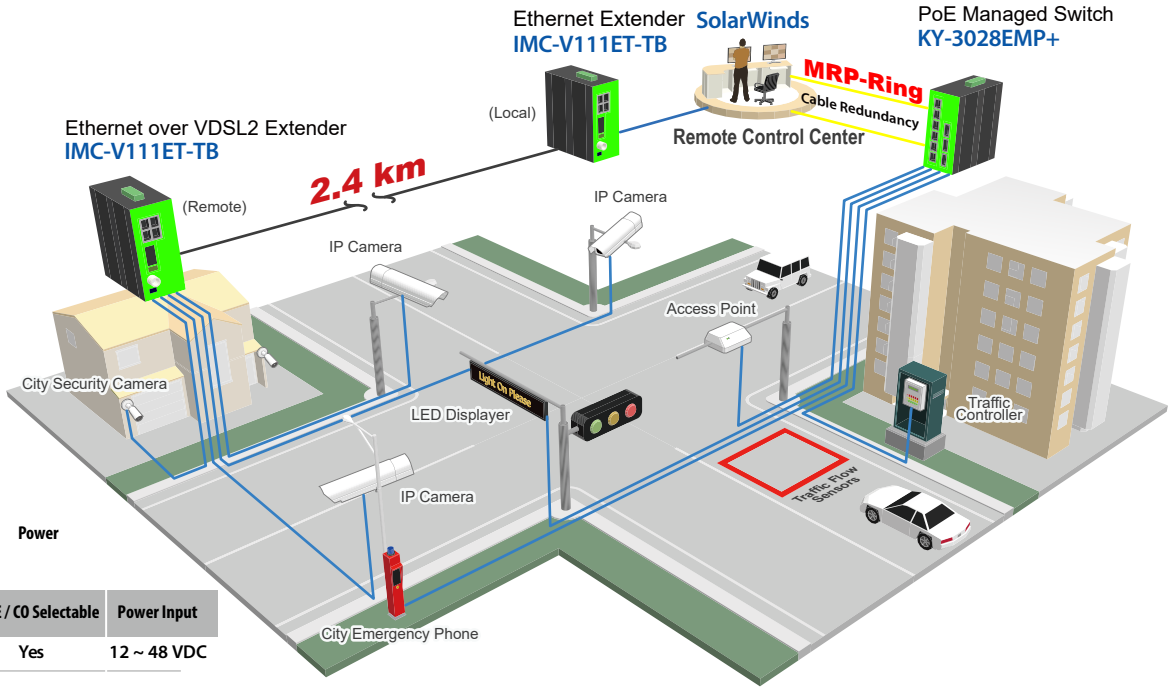


Transportation Surveillance



Model Name	100/1000 SFP	10/100/1000 Base(T)X	10 GbE	MRP Ring	Layer 2 Layer 3	Cable Diagnostics
KY-2189RG	12 SFP	8	0	Yes	Layer 2 & 3	Yes
KY-3170Tx	2 SFP	8	2	Yes	Layer 2 & 3	Yes
KY-4807EMx	12 SFP	8	0	Yes	Layer 2	Yes

Intelligent Intersection Monitoring

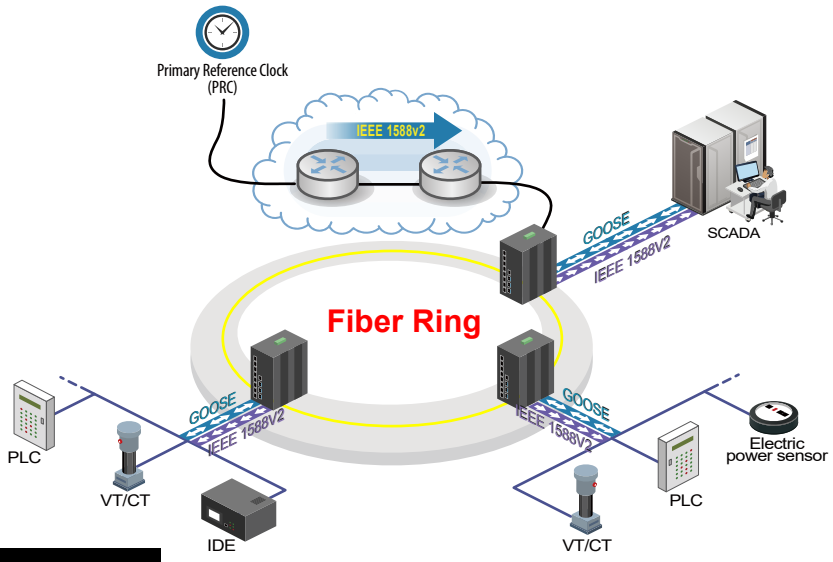


Model Name	10/100 Base(T)X	VDSL2	CPE / CO Selectable	Power Input
IMC-V111ET-TB	1	1	Yes	12 ~ 48 VDC

Model Name	100/1000 Base-X	10/100 Base-TX	IEEE802.3at	IEEE 1588v2 PTP	Ring
KY-3028EMP+	2 SFP	8	8 PoE+	Yes	Yes

IEEE802.3at Power

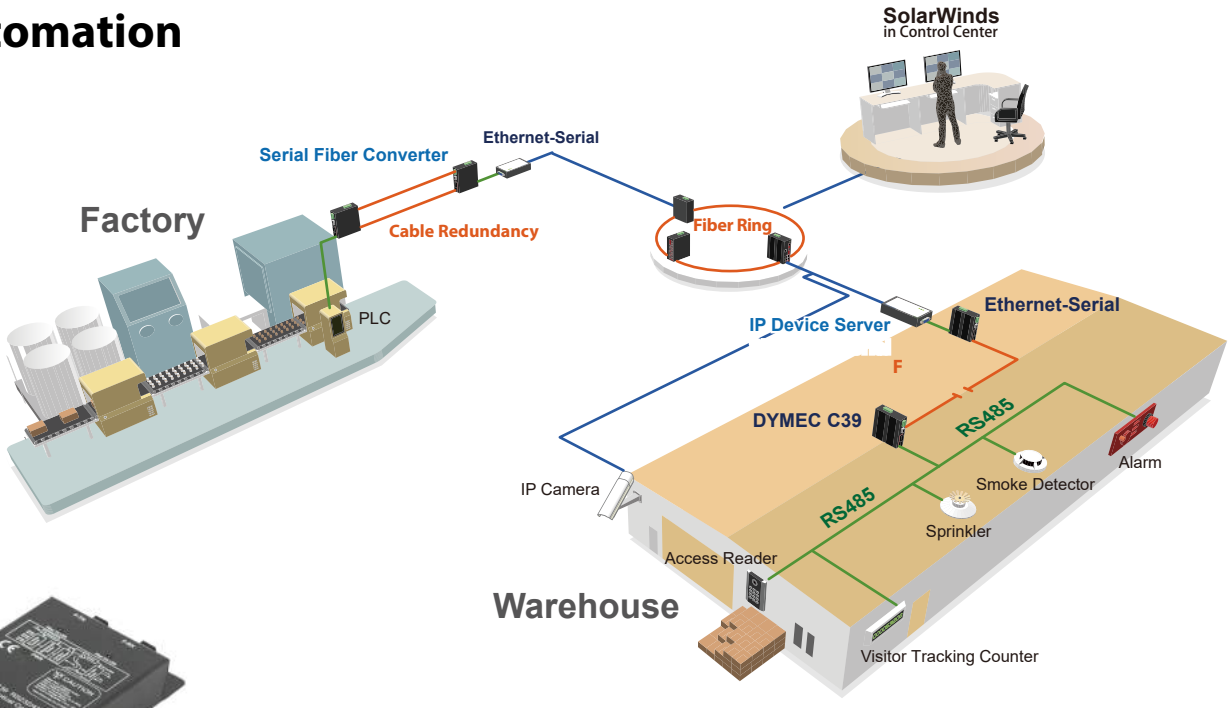
Power Substation



DGS-9812GP-AIO S Series



Factory Automation



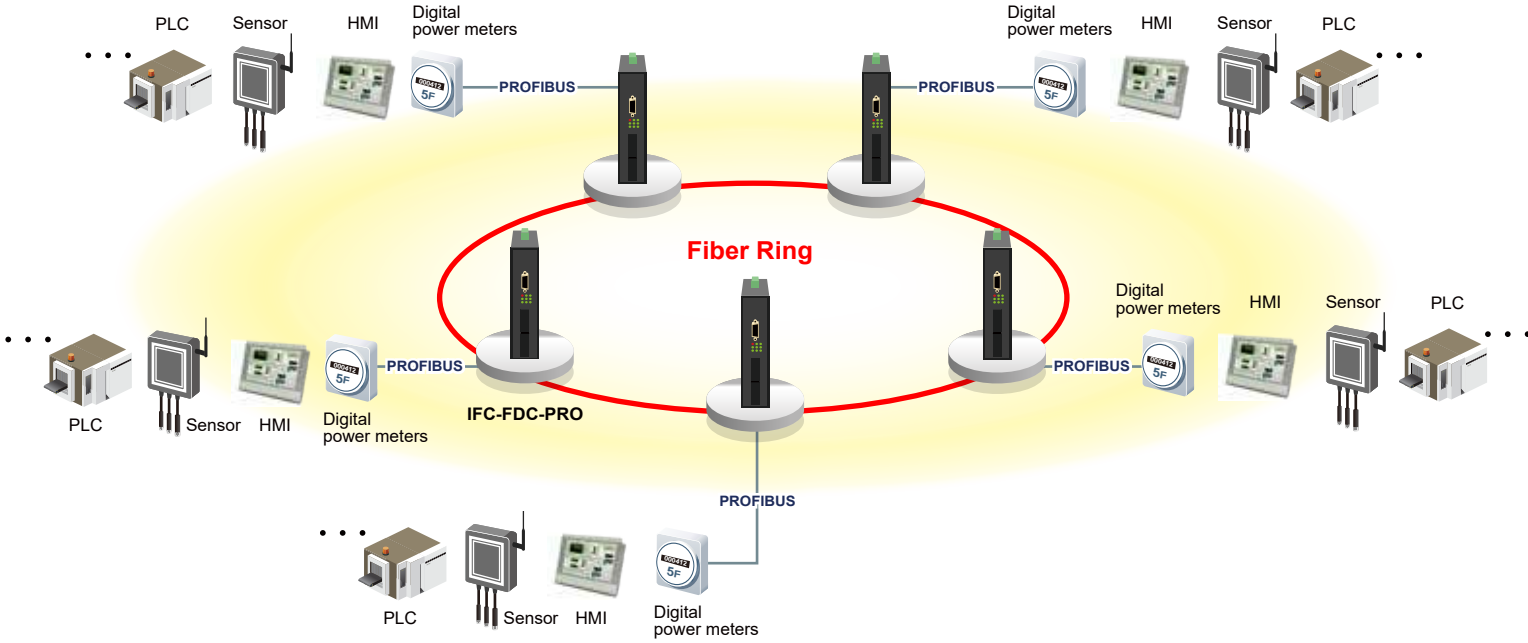


DYMEC C39
Serial To Fiber

DYMEC Utility Applications



FieldBus Automation



Benefit:

1.EMC/noise isolation, to reduce mutual interference between serial port device
2.Extend distance by fiber
3.Cable redundancy
4.Isolate PROFIBUS failure
5.Achieve a reliable network environment



Product Selection Table

10 GbE Core Switch - Layer 2 & 3 Router

Model	Managed	Total Port	GbE Port		10 GbE	Redundant Input Power	Certification			
			100/1000 Base-X SFP	100/1000Base-X SFP & RJ4 5	IEEE802.3ae SFP+		Railway EN50121-4	Safety UL60950-1	EN61000-6-2 EN61000-6-4	CE, FCC
DY-9000RGSP	✓	28	24	4 x Combo Module	4	110/220 - 370 Volts AC/DC or 48 Volts DC	✓	✓	✓	✓
KY-3170Tx	✓	10	2	N/A	2	12 / 24 / 48 Volts DC	✓	✓	✓	✓

Gigabit Layer 2 & 3 Backbone Switch / Router

Model	Managed	Total Port	RJ45 Port	Fiber Port	PoE	Redundant Input Power	Certification			
			10/100/1000 Base-T	100/1000 Base-X			Railway EN50121-4	Safety UL60950-1	EN61000-6-2 EN61000-6-4	CE, FCC
KY-2189RG	✓	20	8	12		12 / 24 / 48 Volts DC	✓	✓	✓	✓
KY-3170Tx	✓	10	8	2		12 / 24 / 48 Volts DC	✓	✓	✓	✓
KY-4809RGP+	✓	12	8	4	✓	48 ~ 57 Volts DC	✓	✓	✓	✓
RGPS-R9244GP+P	✓	28	24	4	✓	110/220 Volts AC	✓	✓	✓	✓
KY-9000RGSP	✓	28	24 Option	24 or 28		110/220 Volts AC	✓	✓	✓	✓

FieldBus Fiber Converter

Model	Dual Channel	Serial (Field Bus transparent)					Fiber		Redundant Input Power	Certification		
		RS232	RS422/ 485	FieldBus	Baud Rate Max	Isolation (2.5KV)	SC/ST	Daisy Chain		Safety UL60950-1	EN61000-6-2, EN61000-6-4	CE, FCC
DYMEC C39		1	1	Mod / Profi or CanBus	2 Mbps	✓	1	✓	9 ~ 30 VDC	✓	✓	✓
DYMEC C39S		1	1	Mod / Profi or CanBus	2 Mbps	✓	1		9 ~ 30 VDC	✓	✓	✓
DYMEC C37		1	1	Mod / Profi or CanBus	2 Mbps	✓	RJ-45	✓	9 ~ 30 VDC	✓	✓	✓

IP Device Server

Model	RJ45 Port	Cyber_Secure	Serial Port		Power Input	Certification
	10/100Base-TX		RS232	RS232/422/485		CE, FCC
IDS 312 Series	2	Yes	1	1	12 / 24 / 48 VDC	✓
TDS-5041-I-M12	1	Yes		4	12 / 24 / 48 VDC	✓
IDS 322 Series	2	Yes		2	12 / 24 / 48 VDC	✓
IDS 342 Series	2	Yes		4	12 / 24 / 48 VDC	✓
IDS 342GT Series	2	Yes		4	12 / 24 / 48 VDC	✓
IDS M311 Series	1	Yes		1	12 / 24 / 48 VDC	✓

Product Selection Table

Power over Ethernet + Switch

Model	Managed	IP40	Total Port			Fiber Port	PoE Port	Redundant Input Power	Certification				
				10/100 Base-TX	10/100/1000 Base(T)X PSE	100/1000 Base-X	IEEE802.3at		EN50155	Railway EN50121-4	Safety UL60950-1	EN61000-6-2 EN61000-6-4	CE, FCC
KY-8PSE30WMHx	✓	✓	12		8	4	8	48~57 VDC	✓	✓	✓	✓	✓
KY-8PSE30WM	✓	✓	12		8	4	8	110/220 VDC	✓	✓	✓	✓	✓
KY-3028EMP+	✓	✓	10		8	2	8	48~57 VDC	✓	✓	✓	✓	✓
KY-4809RGP+	✓	✓	12		8	4	8	48~57 VDC	✓	✓	✓	✓	✓
RGPS-R9244GP+-P	✓	✓	28		24	4	24	110/220 VDC	✓	✓	✓	✓	✓

DYMEC 3170 Traffic Switch



Model	Managed	NEMA	Total Port	Port Types		SFP Fiber Port	Redundant Input Power	FEATURES				
				10/100 Base-TX	10/100/1000 Base-TX	1 GbE 10 GbE		Optional PoE+	KY-1-Button DBU	Safety UL60950-1	EN61000-6-2 EN61000-6-4	CE, FCC
KY-3182RM	✓	✓	10	8		2 SFP 1 / 10 GbE	12 / 24 / 48 Volts DC		✓	✓	✓	✓
KY-3170EMx	✓	✓	10		8	2 SFP 1 GbE	12 / 24 / 48 Volts DC	✓	✓	✓	✓	✓
KY-3170Tx	✓	✓	10		8	2 SFP 1 / 10 GbE	12 / 24 / 48 Volts DC		✓	✓	✓	✓
SHELF MOUNT												
KY-3100EMx	✓	✓	10		8	2 SFP 1 GbE	12 / 24 / 48 Volts DC	✓	✓	✓	✓	✓
KY-3100Tx	✓	✓	10		8	2 SFP 1 / 10 GbE	12 / 24 / 48 Volts DC		✓	✓	✓	✓

Welcome to DYMEC's Connecteted City of the future:

All across the world, city planners and architects are designing and implementing Applications, Platforms and Infrastructure to deliver services and connectivity to citizens, corporations and other stake holders. The world is changing, and you are a part of this change. The Industrial Internet is upon us, working to make life better and easier.



SENSORS! SENSORS! SENSORS!

DYMEC is an engineering company, located in Kansas City, Missouri. We design, engineer, and build innovative solutions for city infrastructure. Our products range from Gigabit, Layer 3 Traffic Routers, simple High Power PoE switches, to sophisticated camera analytics.

We build solutions to the problems of today. DYMEC is "American Innovation"







BLACKBIRD SR-2017 CAMERA GUARD

Video Camera Maintenance And Monitoring

Automated Video Analytics For ITS, Police, Surveillance & Public Safety

DYMEC
AMERICAN INDUSTRIAL

BLACKBIRD SR-2017
Camera Guard

Surveillance & Reconnaissance
for Video Cameras

Automated Inventory & Operations
Analytical Analysis of Video Quality
Security Check
Video Asset Checking to Prevent Hacking
Image Assessment & Maintenance Alerts





Supports Up to 1500 Cameras
per Server

Fully Automated Camera Analytics



Our **BLACKBIRD SR-2017 Camera Guard** Software is named after the famous U.S. Air Force SR-71 Surveillance & Reconnaissance aircraft. The SR-71 could fly at a speed of 2,193 MPH (Public Record). Over 3 times the speed of sound. Despite having over 1,000 missiles fired at the aircraft - not a single SR-71 was shot down. It is the only military reconnaissance aircraft type not to be shot down.

The SR-71 contained the most automated and advanced imaging systems ever designed. The camera capabilities included full image quality and operations testing. All operations were fully automated and run continuously.

The **BLACKBIRD-2017 Camera Guard** is a derivative of the famous reconnaissance photography and analysis. We fully support the following camera, network or image failures.



1. Abnormal Video Loss
2. Image Partial color
3. Snow Disturbance
4. Image Freezing
5. Video Picture Jitter
6. Blurred Images
7. Video Occlusion
8. Contrast
9. Too Bright Image
10. Too Dark Image
11. Fringe Interference
12. Black & White Image
13. Image Drastic Change
14. Video Mosaic
15. Scene Change
16. PTZ Anomaly
17. Login Failure
18. Packet Flow Anomaly
19. Flow Anomaly
20. Network Anomaly / Hacked Cameras

BLACKBIRD SR-2017 Camera Guard

For Organizations that Own & Operate Large Numbers of Cameras - that must be working all the time.

Automation & Video Analytics
* Know that all your cameras are fully operational & working
* Prevent Cameras from being hacked or Co-opted
* Save Money on Camera Maintenance
* Reduce Down Time
* Manpower Savings
* Customized Reports
* PTZ Testing & Control
* Real Time Detection Statistics
* Historical Statistics

Video Analytics that makes organizations smarter and more efficient.

Features/Options

Supports Up to 1500 Cameras
Up to 2048 Web Users
Up to 1024 Concurrent Users
Supports Multiple Domain Management
Specialized Hardware ASIC's for Specialized Video Analysis
Continuous Real Time Testing & Analysis
Supports Video Browsing, Download & Replay
PTZ Control, Alarm Linkage
Scheduling
Supports RSTP, ONVIF, & GB/T28181 Protocol Standards





BLACKBIRD SR-2017 Camera Guard

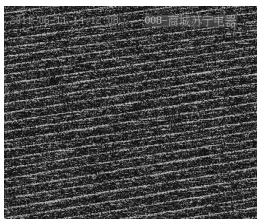
VIDEO DIAGNOSTIC SERVER



Video Loss



Partial Color



Snow Disturbance



Frozen Image



Blurry Image
Shaking



Poor Contrast



Image Too Dark



Video Upheaval



Fringe Interference



Black & White
Image

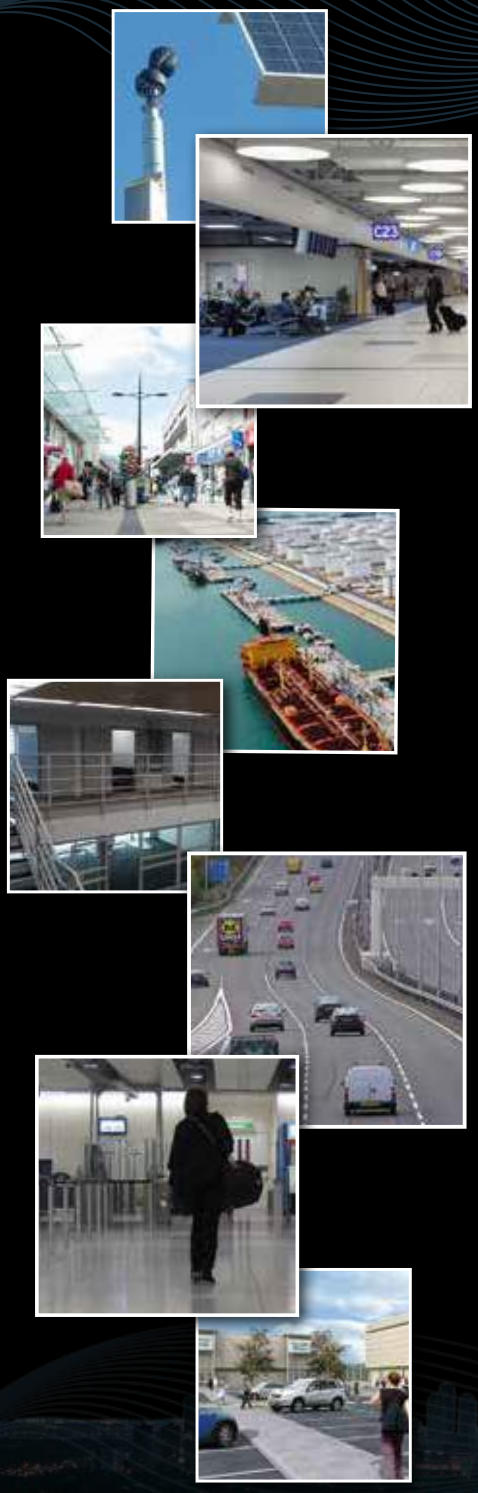


Image Drastic
Change



Too Bright Image
Dust on Lens

A Connected City Analytics Application



Key Applications Include:

- Traffic Management Centers
- Police Surveillance & CIC Centers
- Hospitals
- Schools & Colleges
- Telecom Utilities (Fiber Relays, Central Office)
- Airports and Transportation Facilities
- Prisons & Correctional Facilities
- Oil and Gas Terminals
- Bridges, Tunnels & Rest Stops
- Sport Venues and Public Arenas
- Military Installations

Supports Up to 1500 Cameras per Server

Fully Automated Camera Analytics

For Information and Sales:
Telephone: (816) 988-7861
Email: Sales@DYMEC.com

or Visit - DYMEC.com

Kansas City, Missouri U.S.A.

A Veteran Owned Small Business (VOSB)

Welcome to DYMEC's Connecteted City of the future:

All across the world, city planners and architects are designing and implementing Applications, Platforms and Infrastructure to deliver services and connectivity to citizens, corporations and other stake holders. The world is changing, and you are a part of this change. The Industrial Internet is upon us, working to make life better and easier.



SENSORS! SENSORS! SENSORS!

DYMEC is an engineering company, located in Kansas City, Missouri. We design, engineer, and build innovative solutions for city infrastructure. Our products range from Gigabit, Layer 3 Traffic Routers, simple High Power PoE switches, to sophisticated camera analytics.

We build solutions to the problems of today. DYMEC is "American Innovation"

DYMEC Connected Cities

Practice Smart Lighting



Upgrade Existing Lighting to DYMEC SMART LIGHTS For Low Cost & Easy Upgrade

DYMEC.com
Sales@DYMEC.com

DYMEC SMART LIGHTING PRODUCTS

LCP Master

- Supports MQTT & ANSI C136.41 (NEMA) Standards
- Plug & Play NEMA 7 Sensor Module
- Waterproof
- Easily Integrates into IOT Lighting Control System
- Includes RF Module & Antenna
- 1 Master Controls 100 Slaves



LCP Slave

- Supports ANSI C136.41 (NEMA) Standards
- Plug & Play NEMA 7 Sensor Module
- Waterproof
- Easily Integrates into IOT Lighting Control System
- Includes RFModule & Antenna
- 1 Master Controls 100 Slaves

LCB Series

- Detached Control Box for all Lighting Systems
- Upgrade Existing Lighting Systems into a SMART Lighting Solution
- Saves Energy & $$$



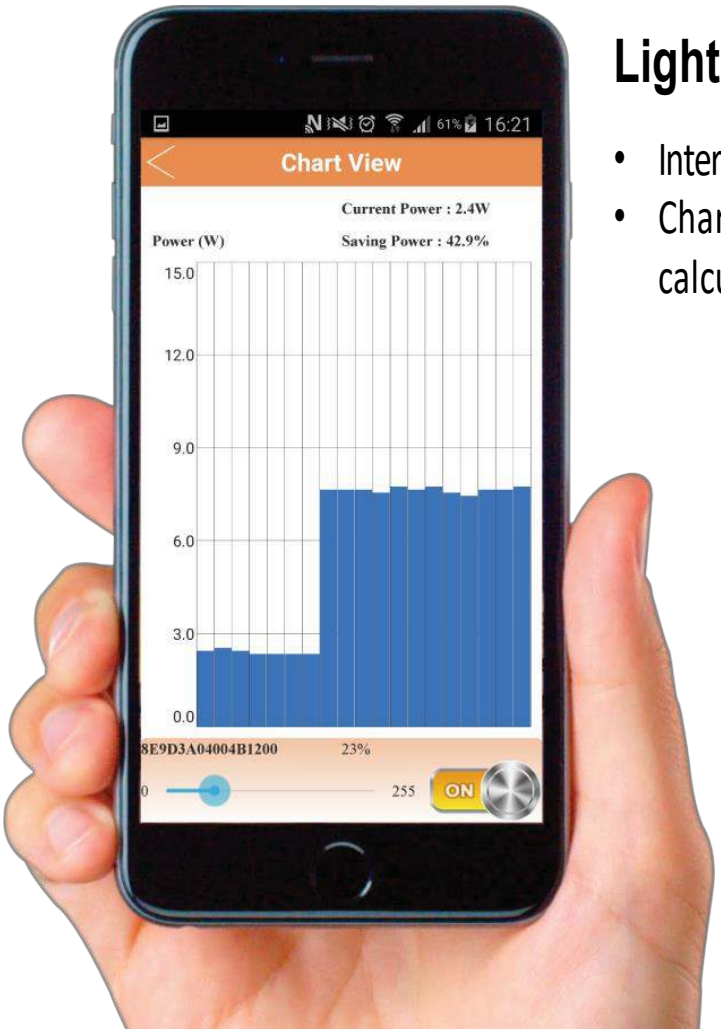
DYMEC SMART LIGHTING integrates into the Cloud

amazon web services

Microsoft Azure

Construction APP

- Collect street light informa on.
- Upload data to a public or private cloud.

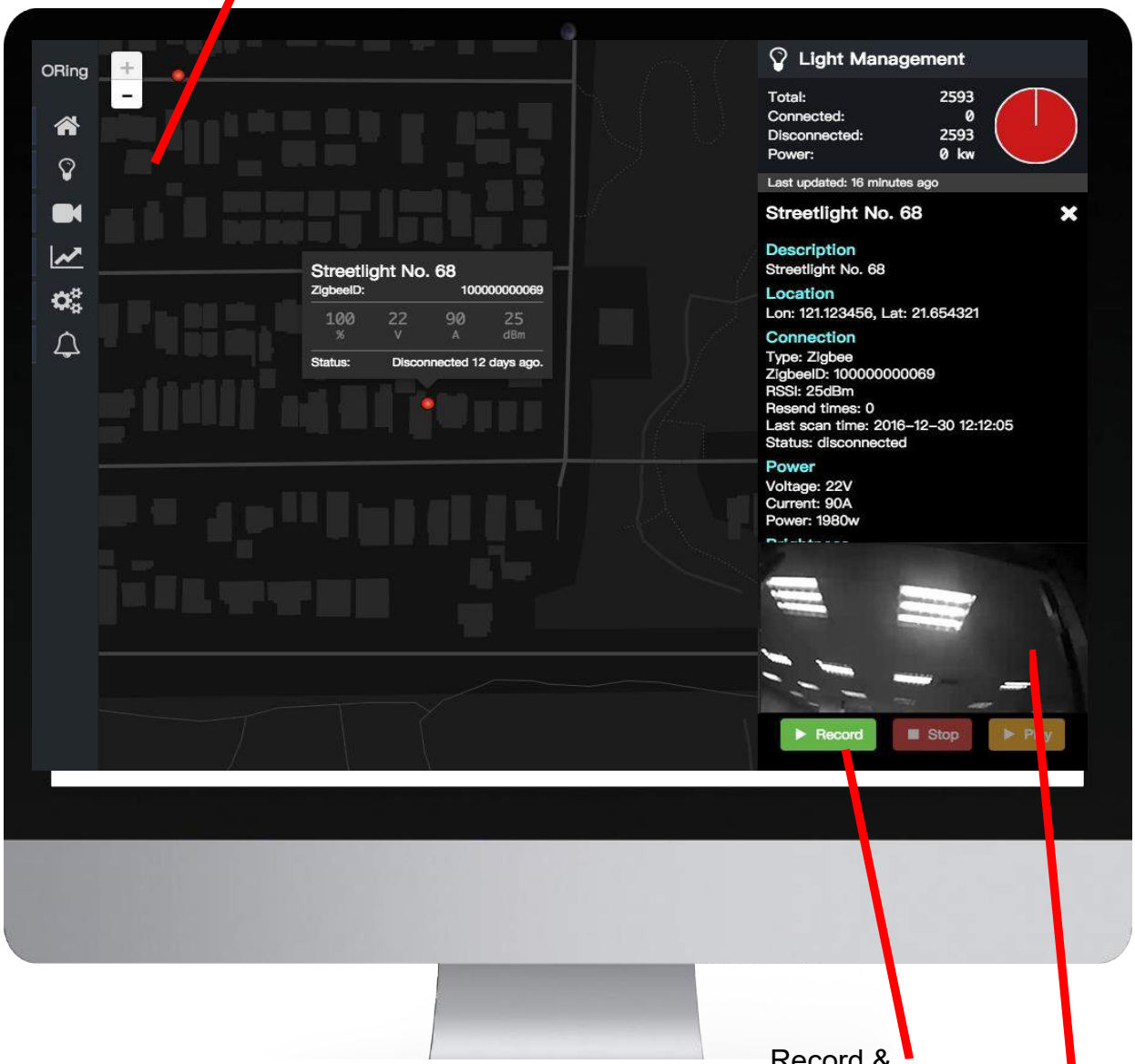


Light Control APP

- Interact with your Smart Ligh ng System
- Chart View shows your history & savings calcula ons of your electricity use

DYMEC SMART LIGHTING PRODUCTS

Full Control Through The Web
Cyber-Secure Industrial Internet



DYMEC

Cyber-Secure Industrial Internet Products

* There are 2 Fundamental Methods of Network Design

1. Build a network with insufficient bandwidth, and you need to use complicated queueing and priority mechanisms

- Advantage: Nobody knows for sure how the network will operate or is operating
- Advantage: You need expensive network experts, who also have no idea how the network operates or will react

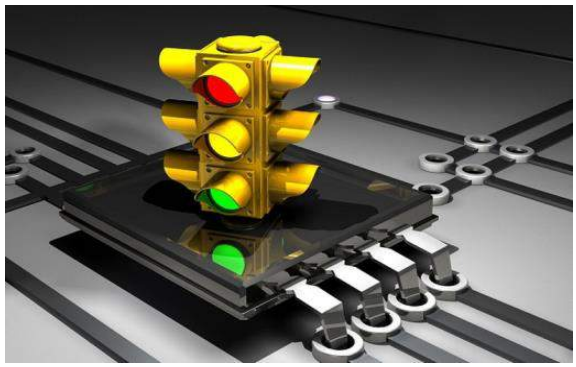
2. Build your network with with more than ample bandwidth

- Advantage: Network is simplified
- Everyone knows how it works and how it will failover

DYMEC recommends building your network with 10 Gigabit Routed connections or rings. Simplify the network - and make your fiber infrastructure work harder.

DYMEC was the first to offer a Data Dongle, so Traffic Technicians with no IT experience or knowledge could work on network switches.

No PC
No IP Knowledge
Easier & Faster Maintenance





DYMEC KY-2189RG

Layer 2 & 3 Industrial Ethernet Switch / Router
20 Port IP Routing Switch
Outdoor / Fanless
12 X 1 GbE SFP Ports
8 X 1 TX GbE RJ-45 Copper Ports
High Security - Cyber-Secure Industrial Internet

IEC61850
IEEE1613

IEEE 1588_v2

DYMEC.com
Sales@DYMEC.com

DYMEC DY-9000RGSP
(Layer 3 / 10 Gigabit)



Managed, Layer 3 Router
Modular - 28 Ports
Outdoor - Fanless - 1 RU
IEEE 1588v2
4 X 10 GbE & 24 X 1 GbE
Enables 99.999% (5 Nines) Reliability
IP, OSPF, GRE, VRRP, Multi-Cast

IEEE 1588_v2

IEC61850
IEEE1613



DYMEC KY-3170Tx
(Layer 3 / 10 Gigabit)
Traffic Switch

Managed, Layer 2 & 3
Router - Switch
ERPS & MRP Ring Technology
Outdoor - Fanless - 1 RU
IEEE 1588v2
2 X 10 GbE & 8 X 1 GbE
IP, GRE, VRRP, Multi-Cast

Why Waste Fiber Connectivity?
Go for Layer 3! Go for 10 Gigabit Connections!
Cyber-Secure Internet Industrial Networks

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