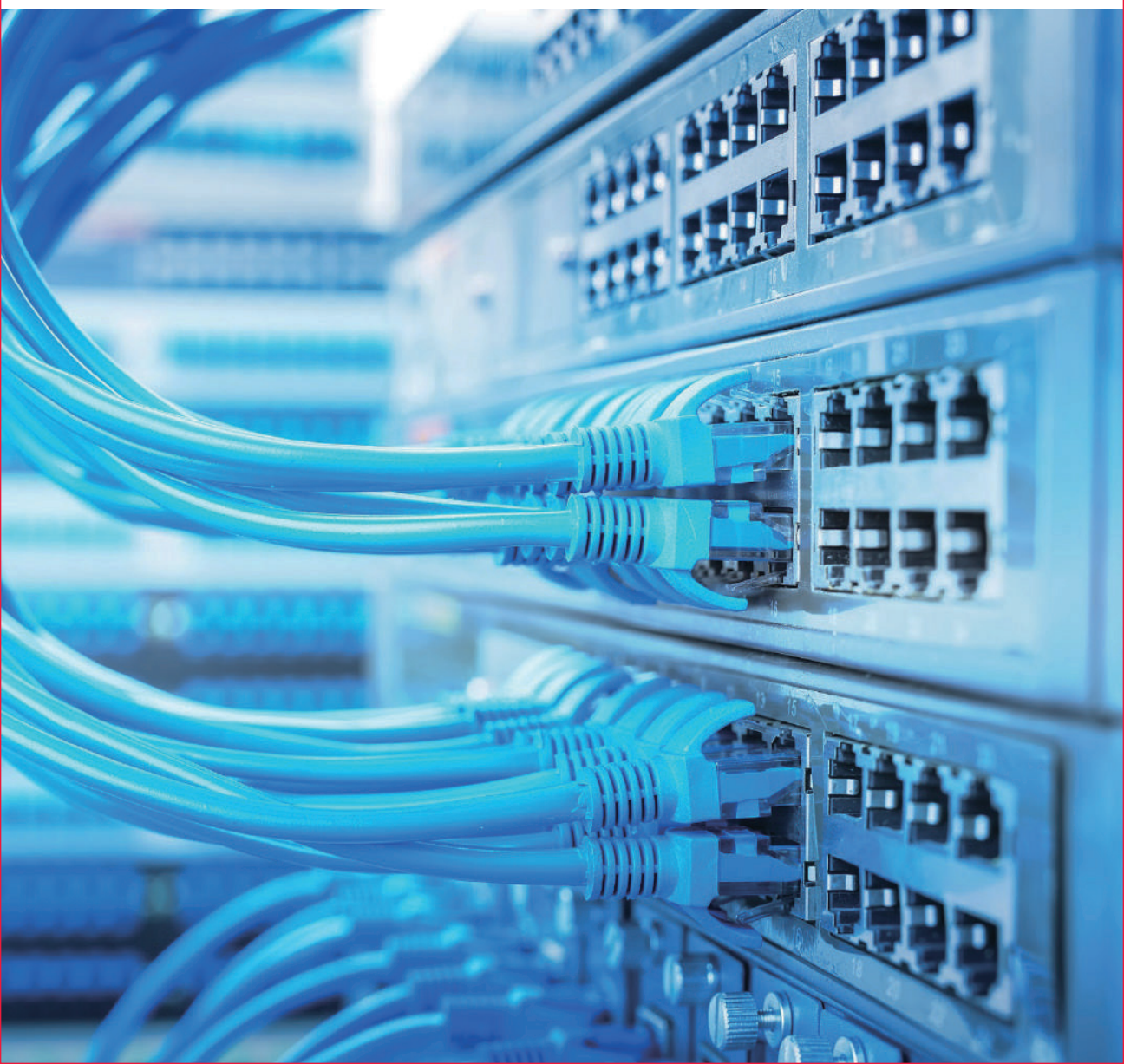
DYMEC
AMERICAN INDUSTRIAL

Free Product Guide for Your Network

Ethernet Switch

ITS & Automation Catalog



Features and Benefits



IEC 61850-3 for Substation

DYMEC's substation Ethernet switches product line are specially designed for compliance of IEC 61850-3 and IEEE 1613 standards for zero packet loss performance. With the IEEE 1588 timing accuracy protocol, network have highly synchronized clocks for distributed power grids.
To ensure a non-stop networking, the self-healing redundancy Ethernet switches compliant with environment are required. 5 Year / Limited Lifetime Warranty



ERPS/MRP Ring protection

Ethernet Ring Protection Switching (ERPS) is defined in the ITU-T standard G.8032 and **DYMEC** products support both v1 and v2 with multiple rings support topologies. The Media Redundancy Protocol (MRP) is a data network protocol standardized as IEC 62439-2. These ring protocols provide sub-50ms redundancy protection and recovery switching for Ethernet traffic that provide critical networks with high reliability.



TTDP in Ethernet Train Backbone

Train Topology Discovery Protocol identify the order of the on board network routers. TTDP provides automatic network configuration of IP address in Layer 3 Ethernet switches and saves substantial maintenance hassles. The operator only required to identify the head train carriage and the other carriages will be placed in order in the Train Control Network.

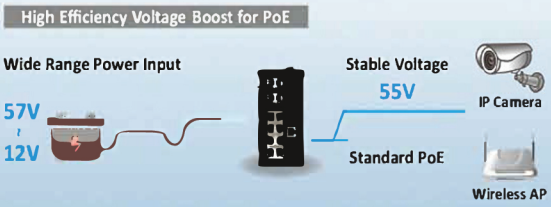


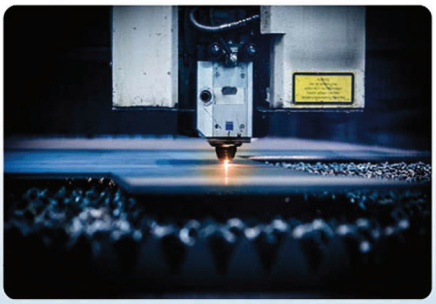
MacSec for Cyber Security

802.1AE is the IEEE MAC Security standard. With the cipher suite AES-256 and AES-128, MACsec defines a security infrastructure to provide data confidentiality and data integ-rity. The MACSec function prevents the data and stream from cyber security attacks or changed by the man-in-the-middle.

Efficient PoE Booster

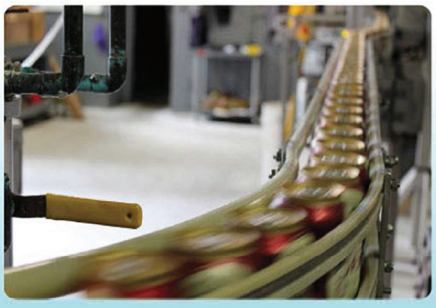
PoE Booster technology is the best solution for your applications when there's no 48~57VDC power available for standard PoE power input. With the wide range input 12 ~57VDC Boost PoE Ethernet switch, additional cost of voltage converters is saved and users have various choice of different devices.





TSN for real-time control

Time-Sensitive Networking (TSN) is a set of standards define mechanisms for the time-sensitive transmission of data over Ethernet networks. With low transmission latency and high availability networks, TSN are beneficial for applications such as automotive or industrial control facilities that require real-time control and video streams.



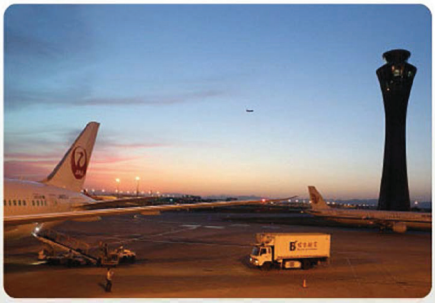
Industrial Cloud

The industrial cloud provides services to make every part of the industrial infrastructure working intelligently. Our System stability is improved and network downtime is reduced through maintenance management by analyzing cloud data collected from machines and equipment and monitoring of network statistics and status.



Embedded NMS

Our network management system is designed to control every network elements (NE). Embedded NMS manages the NE with a browser that enable better user experience as typical NMS runs with a separate software in the computer that require additional installation. **DYMEC** also recommends the use of SolarWinds - our partner for network management tools and software.



DYMEC
Ethernet Switch

This catalog is a guide of DYMEC Ethernet switches including several Network Series of switches - all of which are industrial grade. A series of applications such as ITS, Factory, Surveillance, Automation and PoE

Our Data Center line features Bare Metal switches which can be loaded with a Cumulus OS or other similar OS software. This results in better security - lower costs and higher perfermance. DYMEC delivers the White Box hardware - Today!!

About **DYMEC**

Based in Kansas City, Missouri - we are a Veteran Owned Small Business (VOSB), dedicated to better network security and increased productivity for our customers. DYMEC delivers products and services - at a lower cost - higher value. We specialize in security - lower energy costs, increased network performance and non-stop networks. We build reliability and value. Our chipset partner is Broadcom.

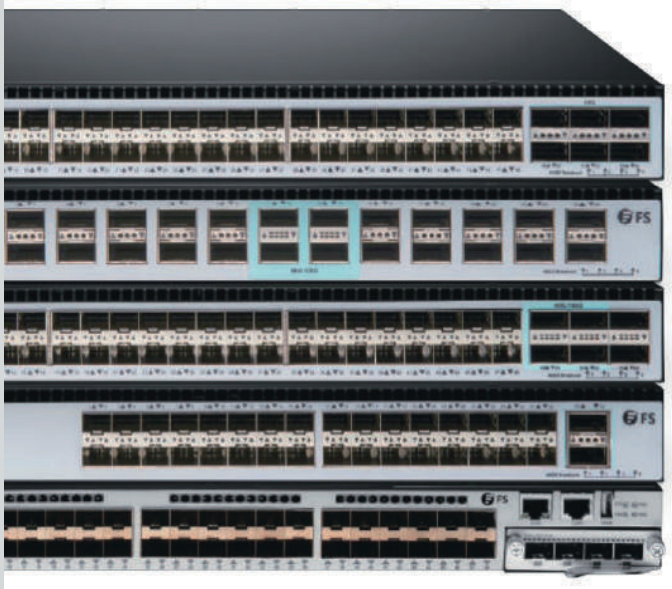
We focus on providing the best performing hardware, software, and solutions for data centers, cloud computing, metro network, access network and wireless network. Our vision is to build a better connected world and make a significant difference in optical infrastructure.

DYMEC - Made in the USA Engineering
Makes your network - Secure & Reliable.
Veteran -Owned Small Business

★ **Simplicity**
Reduce the cost of training and operations.
Increased Security and network applications

★ **High Availability**
High availability from both hardware and software perspective.

★ **Full Technical Support**
24-hour support to solve any networs or security issue - pre or post sales



Need help making your connection?

Live Chat Email Phone

http://www.DYMEC.com
or
Email: Sales@DYMEC.com

01

ITS 3170 Rack & Din-Rail

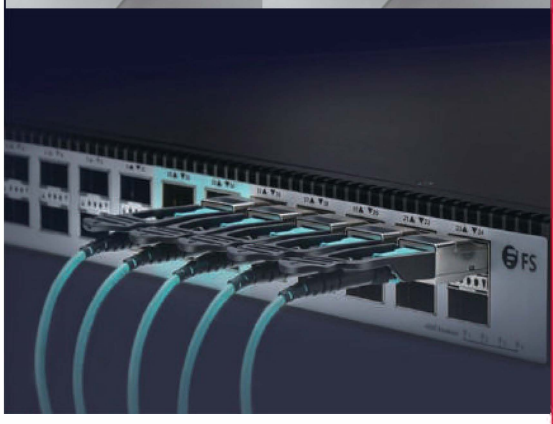
ITS 3170 Series |



02

Data Center Switch

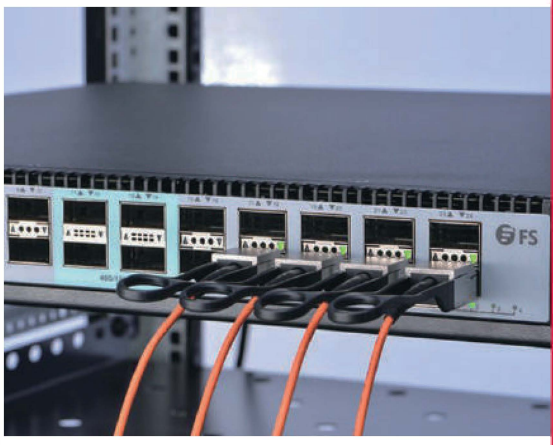
KY-S5800 & KY-S8050 Series |



03

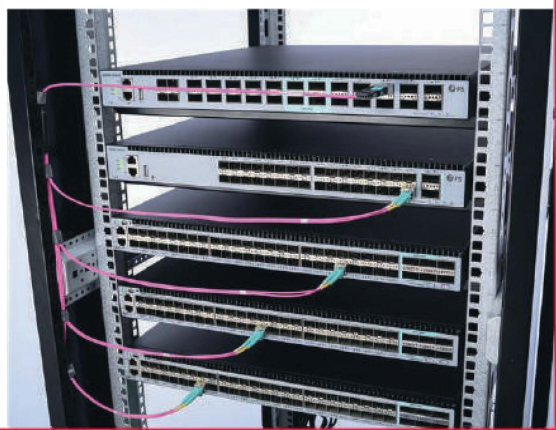
LAN Switch

KY-S3800 & KY-S3700 Series |



04

DYMEC PoE Switch
30 / 60 / 95 Watts
IEEE 802.3 af/at/bt







DYMEC ITS Traffic Switches & Routers

DYMEC ITS, Automation and Infrastructure switches are built using the highest performance Broadcom System on a Chip hardware. We offer the best performance, longest life hardware in the industry. Our switches out-perform all others in terms of performance, features and security.

The **DYMEC 3170™** Switch line has both Layer 2 switching and Layer 3 routing for a complete network solution.
NSA Certified.



NSA Secure — Premier NSA Security for Endpoint Access Devices. Certified Secure Console & Chassis. Console Port and Chassis can be shut down & secured (Patent Pending)

Broadcom SoC — Equipped with Broadcom chip: Broadcom provides performance and security for ITS infrastructure. Secure Networking - Highest throughput.

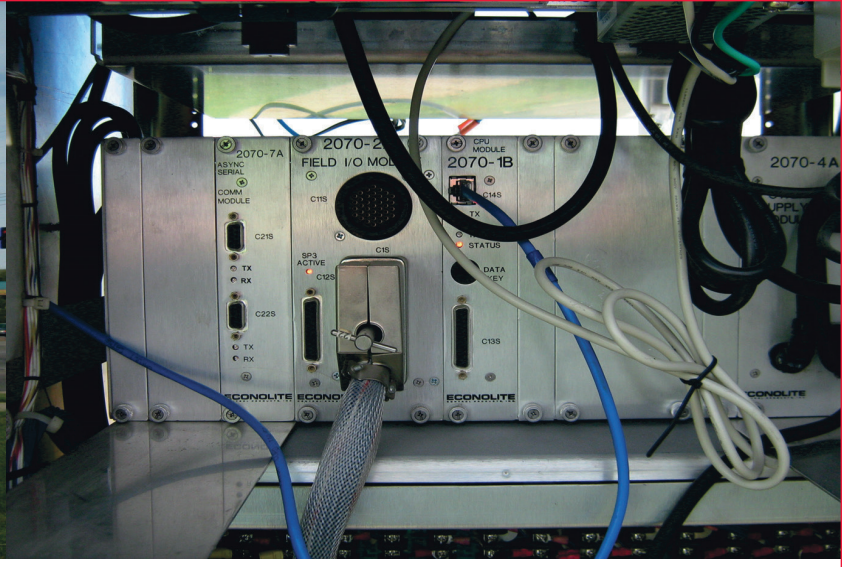
ITS Layer 2 Layer 3 — Designed for 10G/100G and 25G/100G Advanced ITS Architecture used to support Autonomous Vehicles and Smart Information Highways and Infrastructure.

Temp Hardened — Industrial Strength Temperature Hardened for Longevity & Safety. -40 ~ +85 Degrees Centigrade

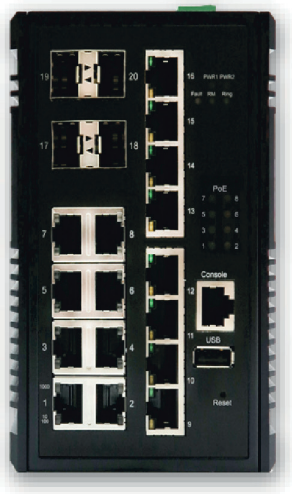
Surge Protected — All Ports and Power Inputs are fully Surge protected against power spikes and electrostatic discharge. Broadcom Power Saving Chipsets.

VLAN IGMP Storm — Advanced Features auch as UPnP, IGMP Snooping, Storm Control, VLAN QinQ, LLDP, DHCP Server & Client, Storm Control, Event Warning, Port Mirroring, 802.1x, Modbus/TCP, Ethernet/IP, IPv4, IPv6, SNMP, USB Configuration, Multi-Cast



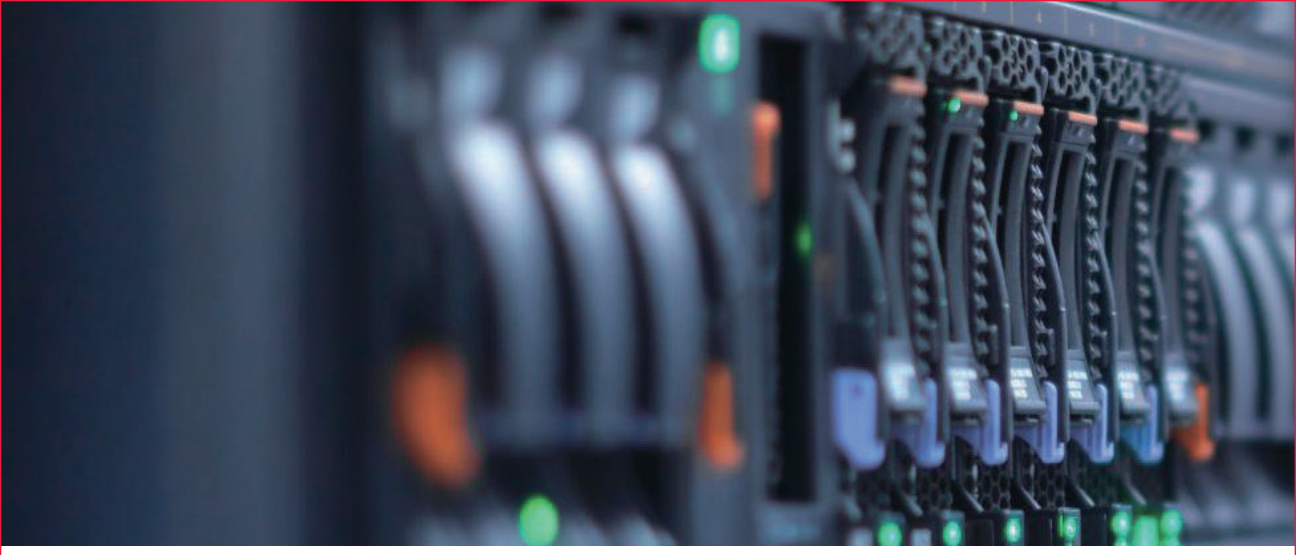






DYMEC 3170™ Properties & Ordering Information

DYMEC KY-3170™EM4	6 x 1GbE TX 4 x 1GbE SFP	Broadcom SoC	LAYER 2 RACK	NSA Certified	Fiber & Copper Diagnostics	ERPS Ring
DYMEC KY-3170™XM	6 x 1GbE TX 4 x 10GbE SFP	Broadcom SoC	LAYER 2 RACK	NSA Certified	Fiber & Copper Diagnostics	ERPS Ring
DYMEC KY-3170™XR (OSPF / GRE / VRRP)	6 x 1GbE TX 4 x 10GbE SFP	Broadcom SoC	LAYER 2 & 3 RACK	NSA Certified	Fiber & Copper Diagnostics	ERPS Ring
DYMEC 3100EM	8 x 1GbE TX 2 x 1GbE SFP	Broadcom SoC	LAYER 2 Din-Rail	NSA Certified	Fiber & Copper Diagnostics	ERPS Ring
DYMEC KY-MSG1604	16 x 1GbE TX 4 x 1GbE SFP	Broadcom SoC	LAYER 2 Din-Rail	NSA Certified	Fiber & Copper Diagnostics	ERPS Ring



DYMEC N Series - Secure Data Center

DYMEC N Series open networking switches are produced with Broadcom's StrataXGS Trident II and StrataXGS Tomahawk switch chips.

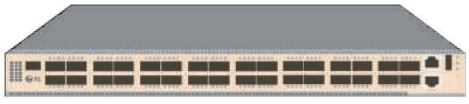
Broadcom is the worldwide leading vendor for switching merchant chips. The Broadcom's StrataXGS series chip is the mostly used hardware in many high-speed switching equipment from the largest-switching vendors including Cisco, Dell, IBM, Arista and Juniper.

Open Switch
Preloaded with ONIE environment, compatible with various operation systems like Cumulus Linux, Broadcom ICOS, IP Infusion ZebOS, Pica8 and open network Linux.

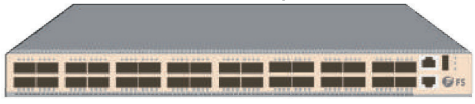
Broadcom Chip
Equipped with Broadcom chip: BroadcomTrident 2 BroadcomTomahawk+ and BroadcomTomahawk, providing reliable performance.

Spine Leaf
Designed for 40G/100G and 25G/100G spine-leaf architecture, catching up with large data center and cloud network with great scalability, reliability and better performance.

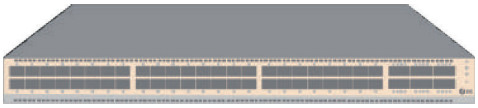
KY-N8500-32C
32*100G QSFP28



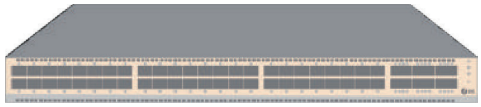
KY-N8000-32Q
32*40G QSFP+



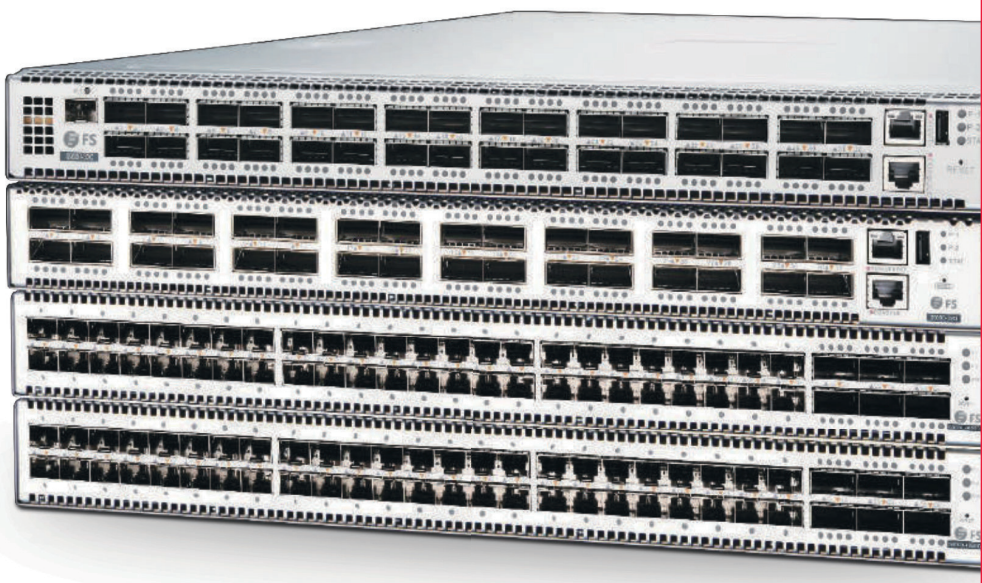
KY-N8500-48B6C
32*100G QSFP28



KY- N5850-48S6Q
6*40G QSFP+
48*10G SFP+

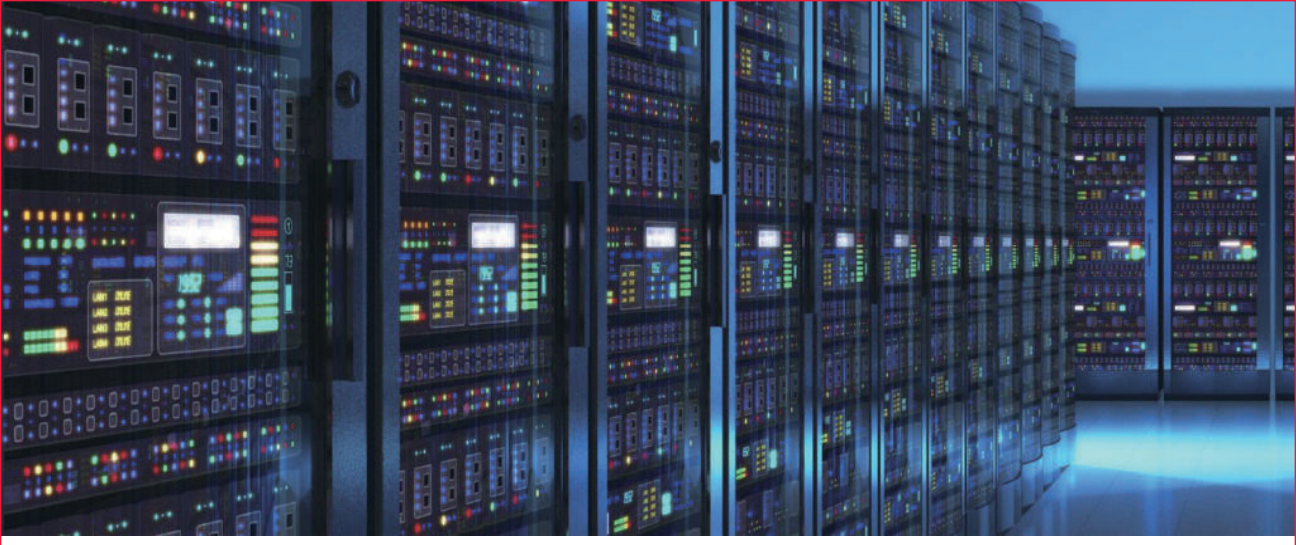






DYMEC N Series Switch Ordering Information

Name	Port	OS	Chip	CPU	Switch Capacity	Packet Buffer Memory
KY-N8500-32C	32 * 40/100G QSFP28	Broadcom ICOS	Tomahawk BCM56960	Intel Rangeley C2538 2.4Ghz 4-core	3.2Tbps full-duplex	16M
KY-N8500-KY-48B6C	6*100G QSFP28 48*25G SFP28	Broadcom ICOS	Tomahawk+ BCM56967	Broadwell-DE 2.2Ghz 2-core	1.8Tbps full-duplex	16M
KY-N8000-32Q	32*10/40G QSFP+	Broadcom ICOS	Trident 2 BCM56850	Intel Rangeley C2538 2.4Ghz 4-core	2.56Tbps full-duplex	12M
KY-N5850-KY-48S6Q	6*40G QSFP+ 48*10G SFP+	Broadcom ICOS	Trident 2 BCM56854	Intel Rangeley C2538 2.4Ghz 4-core	1.44Tbps full-duplex	12M



DYMEC Data Center Secure Switching

DYMEC Data Center Secure Switchess are high performance Ethernet switches designed to meet next generation Metro, Data Center and Enterprise Ethernet network requirements. A design based on high-end scalable chipset with integration of Layer 2 to Layer 4 packet processing engine, traffic management and fabric interface.

1G-100G Providing switches of different port combination to fulfill various deployment requirements from smaller business to service provider.

Flexibility Preloaded with Ipinfusion ZebOS which is available for flexible software customization, service and support.

Affordable Designed with highly reliable hardware, providing the best cost performance switches which are affordable to most.

KY-S5850-48S6Q

6*40G QSFP+



KY-S5850-48S2Q4C

2*100G QSFP28
2*40G QSFP+
48*10G SFP+



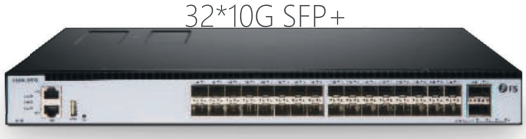
KY-S8050-20Q4C

4*100G QSFP28 32*10G SFP+



KY-S5850-32S2Q

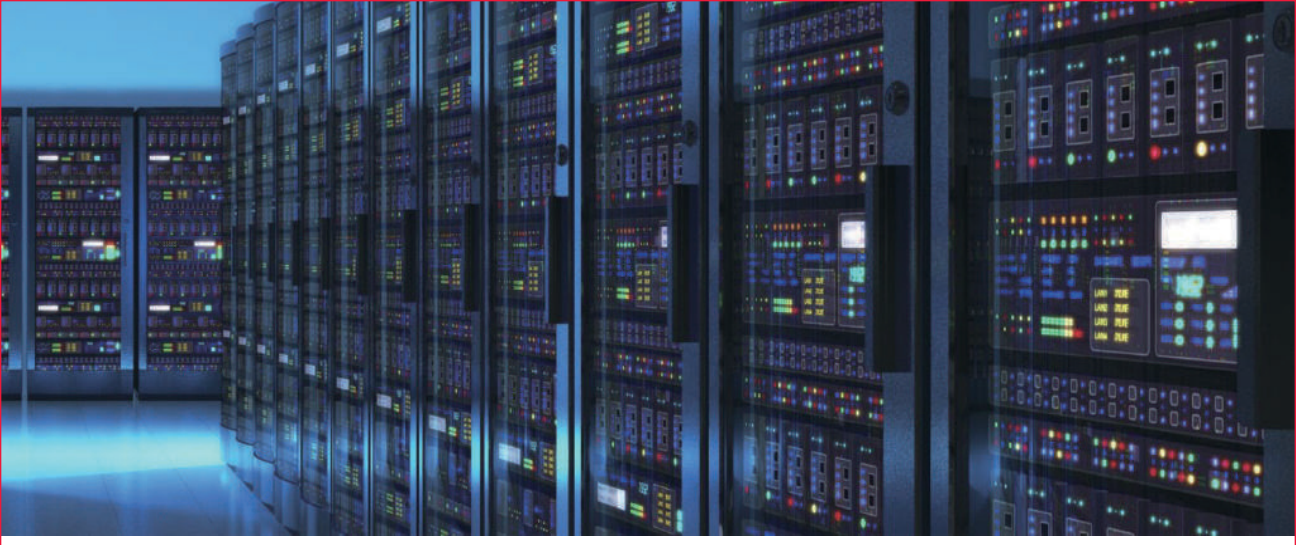
2*40G QSFP+
32*10G SFP+

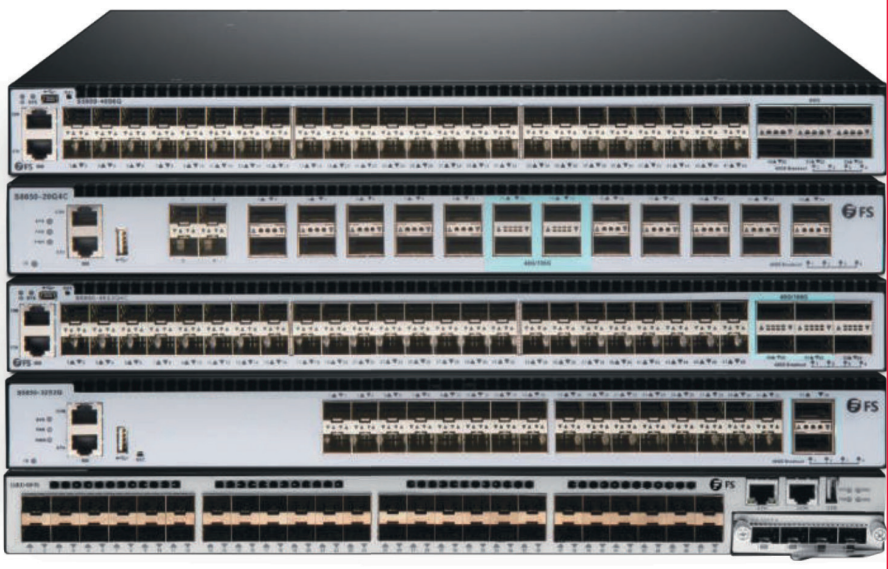


KY-S5800-48F4S

4*10G SFP+
48*1G SFP

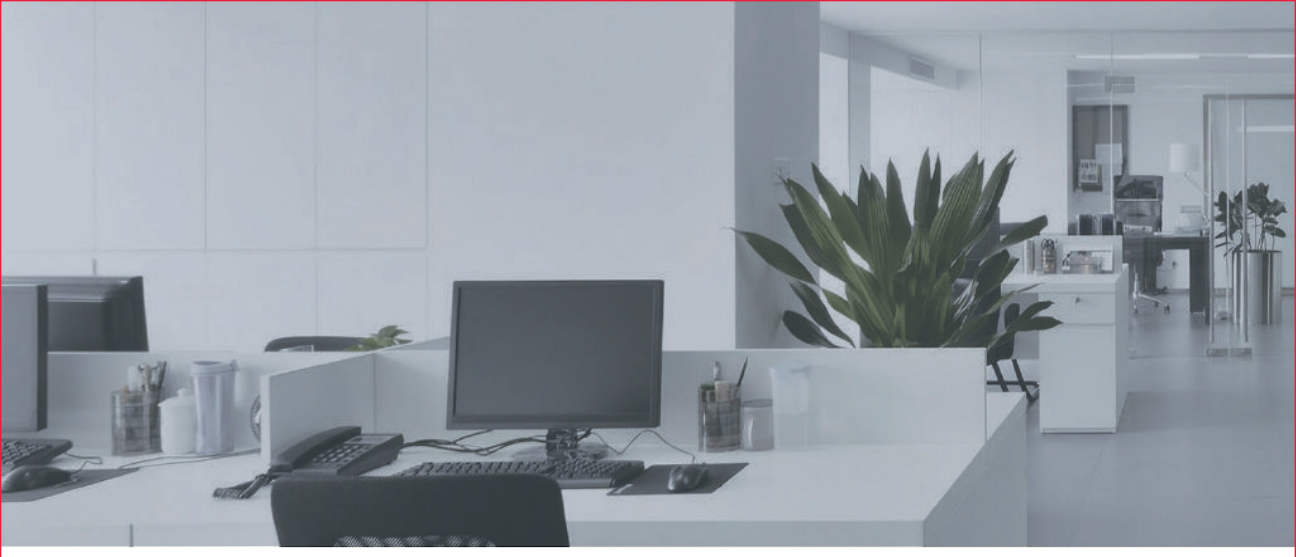






DYMEC Data Center Switch Ordering Information

Name	OS	Port	Switch Capacity	Max. Throughput	Typical/MAX Power Draw	CPU
KKY-S5850-48S6Q	Open Debian Linux	6*40G QSFP+ 40*10G SFP+	1.44Tbps	1072Mpps	150W/190W	PowerPC P1010
KKY-S5850-KKY-48S2Q4C	Open Debian Linux	2*100G QSFP28 2*40G QSFP+ 48*10G SFP+	1.92Tbps	1200Mpps	160W/200W	PowerPC P1010
KKY-S8050-20Q4C	Open Debian Linux	4*100G QSFP28 20*40G QSFP+	2.4Tbps	1200Mpps	120W/160W	PowerPC P1010
KKY-S5850-32S2Q	Open Debian Linux	2*40G QSFP+ 32*10G SFP+	800Gbps	596Mpps	120W/150W	PowerPC P1010
KKY-S5800-48F4S	Open Debian Linux	4*10G SFP+ 48*1G SFP	176Gbps	130.95Mpps	-	Cavium CN5010-500BG564-CP-G/500MHz



DYMEC LAN Switch Series

DYMEC S3800 & S3700 series switches are high performance Metro Ethernet switches designed to meet the demand of cost-effective Gigabit access or aggregation for enterprise networks and operators customers. It adopts high performance and low power processor to provide both full speed forwarding and line-dormant capacity .

Easy Access — Designed for easy access and aggregation connectivity for small and medium business.

Broadcom Chip — Installed with Broadcom Chip and industry popular chip, maximizing the performance of switches.

Low Power Cost — Low power consumption effectively reduces operation cost and impact on environment.

KY-S3800-48T4S

4*10G SFP+
48*10/100/1000Base-T



KY-S3800-24F4S

4*10G SFP+
4*G Combo
20*100/1000Base-X



KY-S3800-24T24S

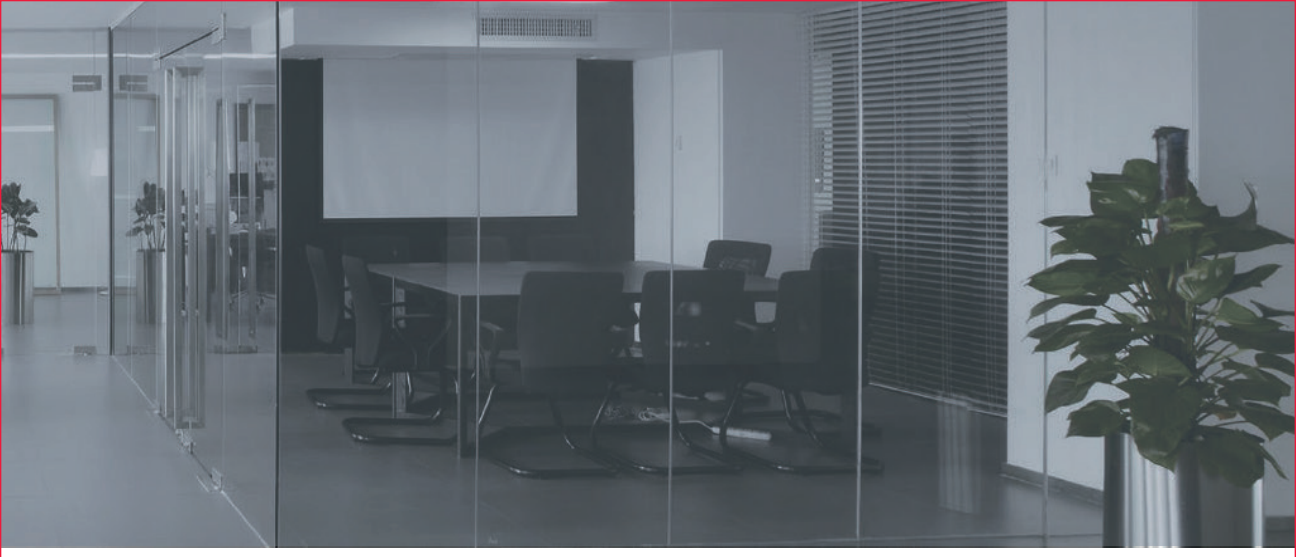
4*10G SFP+
24*10/100/1000Base-T



KY-S3700-24T4S

4*10G SFP+
24*1000Base-T







DYMEC S3800 & S2800 Switch Ordering Information

Name	Port	Switch Capacity	Max. Throughput	Switch Chip	CPU
KY-S3800-48T4S	4*10GE SFP+ 48*10/100/1000Base-T	176Gbps	130Mpps	BCM53346	ARM
KY-S3800-24F4S	4*10GE SFP+ 4*GE Combo 20*100/1000Base-X	128Gbps	95Mpps	BCM53347	ARM
KY-S3800-24T4S	4*10G SFP+ 24*10/100/1000Base-T	128Gbps	95Mpps	BCM53346	ARM
KY-S3700-24T4S	4*10G SFP+ 24*1000Base-T	128Gbps	95Mpps	BCM53346	ARM



DYMEC - PoE+

Power Over Ethernet Switch

DYMEC PoE switches can supply power to network equipment such as weather-proof IP cameras, AP and IP telephones. They are featured with high flexibility, high stability and high resistance to electromagnetic interference. All DYMEC PoE switches come with a five-year limited warranty, including any quality problems during the free maintenance.

PoE — Network Deployment is simplified for deployment in remote areas without power outlets. Fast Deployment and Money Saving

Reliable — Ideal for use in harsh environments subject to vibrations, extreme temperature fluctuations and shocks.

Cost-Effective — PoE solutions provide both data and power transmission over a single cable.

KY-S1400-24T4F

4*1G SFP
24*1000Base-T



KY-S1600-24T4F

4*1G SFP
24*1000Base-T



KY-PS400-24

4*10G SFP+ 48*1000Base-T



KY-S1130-8T2F

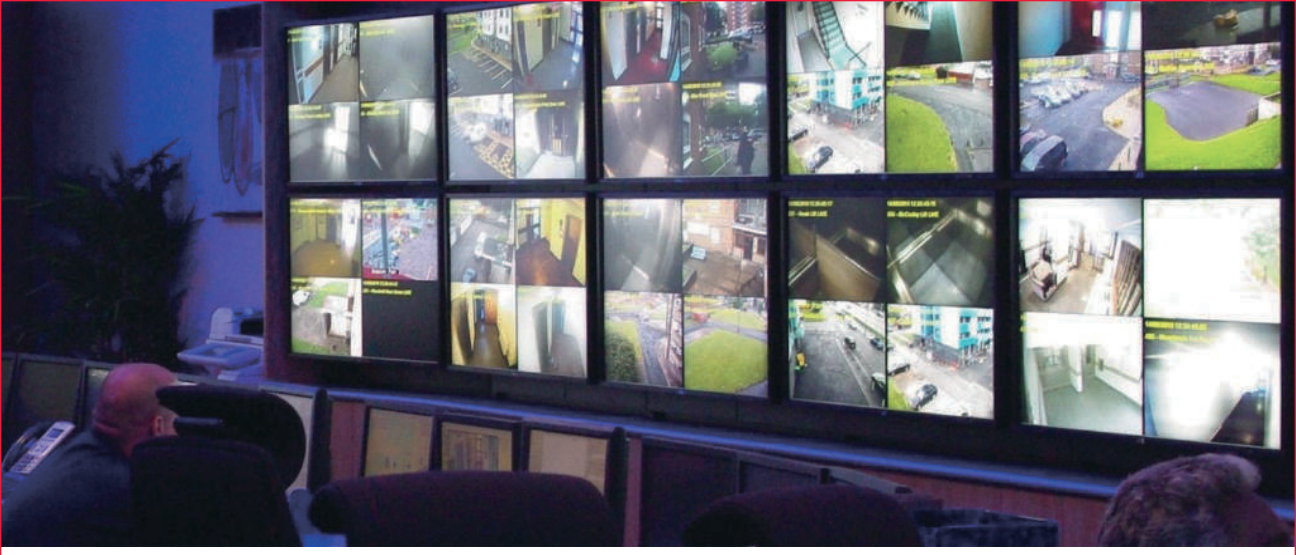
2*1G SFP
8*1000Base-T

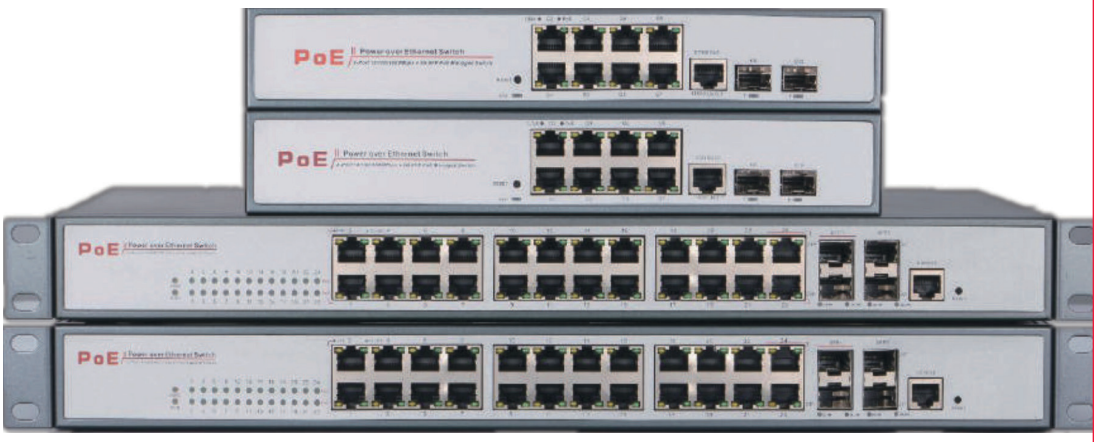


KY-S1250-8T2F

2*1G SFP
8*1000Base-T







DYMEC PoE+ Switch Ordering Information

Name	Port	Switch Capacity	Power Consumption	POE Standards	Switch Chip
KY-S1130-8T2F	2*1G SFP 8*1000Base-T	20Gbps	130W	IEEE 802.3af/at	VITESSE
KY-S1250-8T2F	2*1G SFP 8*1000Base-T	20Gbps	250W	IEEE 802.3af/at	
KY-S1400-24T4F	4*1G SFP 24*1000Base-T	52Gbps	400W	IEEE 802.3af/at	
KY-S1600-24T4F	4*1G SFP 24*1000Base-T	52Gbps	600W	IEEE 802.3af/at	
KY-S1600-48T4S	4*10G SFP+ 48*1000Base-T	180Gbps	600W	IEEE802.3af	

DYMEC

Industrial Managed PoE Ethernet Switch








Compact

60W PoE

Model Names	KY-MPGS0802	KY-MPG1002	KY-MPG0804	KY-MPG1604	KY-MHG0804	KY-MPG2404
Number of Ports						
Total Ports	10	12	12	20	12	28
Gigabit Ethernet Ports	8	10	8	16	8	24
100/1000Tx SFP Ports	-	-	-	-	-	-
1000Tx SFP Ports	2	2	4	4	4	4
PoE Ports	8	8	8	8	8 (240W)	24
Power Input	48-57VDC	48-57VDC	48-57VDC	48-57VDC	48-57VDC	90~264VAC, 48~57VDC
Mechanical Construction						
Enclosure	Military Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum / Steel
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	50x120x100	72x145x118	72x145x118	91x145x118	72x145x118	440x44x331
Weight(kg)	0.70 kg	0.88 kg	0.90 kg	1.40 kg	0.90 kg	5.80 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack
Switch Properties						
Jumbo Frame Support	9600byte	16000bytes	16000bytes	16000bytes	16000bytes	16000bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	2Mbits	12Mbits	12Mbits	12Mbits	12Mbits	12Mbits
Power Consumption (Sys)	32W	18W	19W	22W	20W	26W
Layer 2 Management						
Network Redundancy	RSTP | MSTP | G.8032 ERPSv2 | Port Trunking with LACP | MRP IEC62439-2 (optional)					
Security	802.1X | RADIUS | TACACS+ | SSL | SSH					
Management	IPv4 | IPv6 | Web GUI | Telnet | Serial Console | CLI | SNMP v1/v2c/v3 | uPnP					
Time Sync.	NTP | IEEE 1588/PTP					
QoS	CoS | DSCP | WRR/SPQ Queuing | Storm Protection					
Diagnostics	RMON | SNMP Inform | SNMP Trap | Syslog | SMTP | Port Mirroring | LLDP | SFP DDM					
Configuration	DHCP Server/Client | Relay Option 82 | TFTP | USB					
Filter	802.1Q VLAN | Q-in- Q | IGMP Snooping v1/v2/v3 | IGMP Querier | Independent Vlan Learning					
PoE Monitor	Powering Status | PoE Monitoring | Scheduling | PD Alive Check | PoE Priority					
Industrial Profiles	-	Ethernet/IP | Modbus TCP | Profinet NEMA TS-2				
Related Models						
Non-PoE Ethernet	KY-MSGA0802	KY-MSG1002G	KY-MSG0804	KY-MSG1604	-	-
PoE Booster 12/24V	-	KY-MTG1002G	KY-MTG0804	-	-	-

10G uplink Managed Switch

Layer 3 Managed








L3 Edge

Model Names	KY-MSX0812	KY-MPX1002	KY-MPX0804	KY-MPX1604	KY-CPG0804	KY-CSX2404
Number of Ports						
Total Ports	20	12	12	20	12	28
Gigabit Ethernet Ports	8	10	8	16	8	24
1000Tx SFP Ports	-	-	-	-	4	-
100/1000Tx SFP Ports	8	-	-	-	-	-
10G/ 1G SFP Ports	4	2	4	4	-	4
PoE Ports	-	8	8	8	8	-
Power Input	12-48VDC	48-57VDC	48-57VDC	48-57VDC	48-57VDC	90~264VAC, 12~48VDC
Mechanical Construction						
Enclosure	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum / Steel met
Protection Class	IP30	IP30	IP30	IP30	IP30	IP30
Dimensions(mm)	91x145x118	72x145x118	72x145x118	91x145x118	72x145x118	440x44x331
Weight(kg)	1.38 kg	0.88 kg	0.90 kg	1.03 kg	0.90 kg	4.70 kg
Mounting	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	DIN-Rail,Wall	Rack
Switch Properties						
Jumbo Frame Support	16000bytes	16000bytes	16000bytes	16000bytes	16000bytes	16000bytes
MAC Table Size	16K	16K	16K	16K	16K	16K
Packet Buffer Size	12Mbits	12Mbits	12Mbits	12Mbits	12Mbits	12Mbits
Power Consumption(Sys)	19W	20W	20W	24W	20W	26W
Layer 2 Management						
L2 Management	◎	◎	◎	◎	◎	◎
L3 Switching	-	-	-	-	Static Routing | OSPF v2/v3 / GRE RIP v1/v2 | DVMRP | VRRP v2 (2018 Q4)	

DYMEC

	EN50155- M12 connector			ITS Traffic 3170 Rack Switch	
			 TTDP		
Model Names	**KY-MT0802C-M12**	**KY-MT1604C-M12**	**KY-CT1604C-M12**	**KY-3170XR**	**KY-3170EM4**
Number of Ports				**Layer 2 & 3**	**Layer 2**
Total Ports	10	20	20	10	10
Fast Ethernet Ports	8	16	16	-	-
Gigabit Ethernet Ports	2	4	4	6	6
SFP Ports	-	-	-	4 *10G/1G	4* 1G
PoE Ports	8	16 (240W)	16 (240W)	-	-
Power Input	24/36/48VDC	24/36/48VDC	24/36/48VDC	12VDC rear power	12VDC rear power
Mechanical Construction					
Enclosure	SECC	SECC	SECC	Metal	Metal
Protection Class	IP54	IP54	IP54	IP30	IP30
Dimensions(mm)	217x185x48	287x185x48	287x185x48	58x114x205	58x114x205
Weight(kg)	1.20 kg	2.2 kg	2.2 kg	0.87 kg	0.87 kg
Mounting	Wall	Wall	Wall	Rack with rail slots	Rack with rail slots
Switch Properties					
Jumbo Frame Support	16000bytes	16000bytes	16000bytes	16000bytes	16000bytes
MAC Table Size	16K	16K	16K	16K	16K
Packet Buffer Size	12Mbits	12Mbits	12Mbits	12Mbits	12Mbits
Power Consumption (Sys)	15W	15W	15W	20W	15W
Layer 2 Management					
Network Redundancy	RSTP | MSTP | G.8032 ERPSv2 | Port Trunking with LACP | MRP IEC62439-2 (optional)				
Security	802.1X | RADIUS | TACACS+ | SSL | SSH				
Management	IPv4 | IPv6 | Web GUI | Telnet | Serial Console | CLI | SNMP v1/v2c/v3 | uPnP				
Time Sync.	NTP | IEEE 1588/PTP				
QoS	CoS | DSCP | WRR/SPQ Queuing | Storm Protection				
Diagnostics	RMON | SNMP Inform | SNMP Trap | Syslog | SMTP | Port Mirroring | LLDP | SFP DDM				
Configuration	DHCP Server/Client | Relay Option 82 | TFTP | USB				
Filter	802.1Q VLAN | Q-in-Q | IGMP Snooping v1/v2/v3 | IGMP Querier | Independent Vlan Learning				
PoE Monitor	Powering Status | PoE Monitoring | Scheduling | PD Alive Check | PoE Priority				
Industrial Profiles	Ethernet/IP | Modbus TCP | Profinet				
L3 Switching	-	-	Static Routing | OSPF v2/v3 RIP v1/v2 | DVMRP | VRRP v2 (2018 Q4)	-	
L3 Routing	-	-	-	GRE, IPSec	-

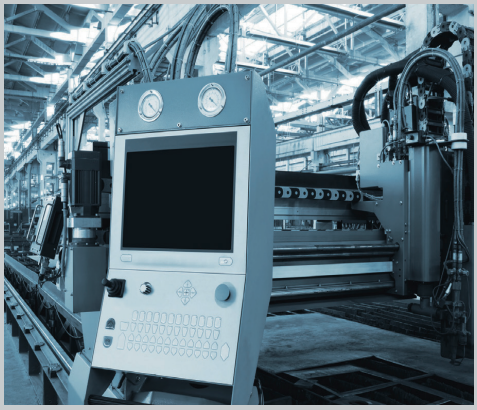
	IEC 61850 compliance		TSN	Unmanaged	
	 Fiber Switch				
Model Names	**KY-MS2404XF**	**KY-MS2404GS-8C**	**KY-MS0804GN**	**KY-EP0802G**	**KY -ES500**
Number of Ports					
Total Ports	28	28	12	10	5
Gigabit Ethernet Ports	-	16	8	8	-
Fast Ethernet Ports	-	-	-	-	5
100/1000Tx SFP Ports	24	8 Combo SFP/TP	-	2	-
SFP Ports	4 *10G/1G	4* 1G	4* 1G	-	-
PoE Ports	-	-	-	8	-
Power Input	24/48VDC, 120~370VDC, 85-265VAC		12-48VDC	45-57VDC	12-48VDC
Mechanical Construction					
Enclosure	Aluminum / Steel met	Aluminum / Steel met	Aluminum	Aluminum	Plastic
Protection Class	IP30	IP30	IP30	IP30	IP67
Dimensions(mm)	440x44x331	440x44x331	72x145x118	50x120x100	32x216x20
Weight(kg)	4.80 kg	4.80 kg	0.90 kg	0.67 kg	0.30 kg
Mounting	Rack	Rack	DIN-Rail,Wall	DIN-Rail,Wall	Wall
Switch Properties					
Jumbo Frame Support	12288bytes	16000bytes	16000bytes	9600bytes	-
MAC Table Size	32K	16K	16K	8K	1K
Packet Buffer Size	32Mbits	12Mbits	12Mbits	4Mbits	448Kbits
Power Consumption (Sys)	28W	30W	18W	19W	5W
Layer 2 Management					
L2 Management	◎	◎	◎ TSN (2019 Q1)	-	-

DYMEC Vertical Market Applications

Manufacturing Automation

Time Sensitive Networks - Real Time Automation - Nano Second Precision

For factory automation, it is necessary to have accurate real-time information for automated production-lines at all times. Traditionally radio and serial connections are used for factory communications, but the integration of Ethernet and SCADA automation systems can make such communications even more effective. **DYMEC** has the right products for industrial network communications – example. PoE Ethernet Switch & Device Servers – allowing traditional serial devices (including RS485 type) to be connected to more robust Ethernet networks. With such upgrade, factory supervisors can get real-time production data much faster and much more reliably, thanks to much higher data bandwidth along with stable and swift redundant ring backup protection. The overall result would be improved production at a much lower cost., with reliability and security. IIOT - Industrrial Internet of Things.



Key Products



DY-C39 Series [DYMEC SERIAL LINKS] Single-Mode or Multi-Mode Fiber

1-serial-port (RS-232 / 422 / 485 Serial Signaling)

- Replaces DYMEC 5844 - Single-mode or Multi-mode Fiiber
- IEC 61850 / IEEE 1613 / NEMA TS-2 (Temperature Hardened -40°C ~ +85°C)
- Supports 3000 Volt DC Optical Electrical Isolation / Low Power / Small Footprint



DY-7041T

5-Port Power Over Ethernet Plus Injector

- 4 x 10/100BaseT(X) PSE (IEEE 802.3af/at PoE+) & 1 x 10/100BaseT(X)
- Rugged Military Grade industrial IP-30 Housing / Class 1 Division 2 Hazardous Location
- -40° to 80°C operating temperature range



KY-3000EMD

10-Port Managed Din-Rail Industrial Ethernet Switch with KY-DONGLE DBU Support

- 7 x 10/100Base-T(X) 1 x 10/100/1000Base-T(X) and 2 x 1 GbE Base-X SFP sockets
- IP MAC table to prevent access from unauthorized IP address
- IP40 / Class 1 Division 2 Hazardous Location



KY-1010EMD

12-Port Managed Ten Gigabit Din-Rail Industrial Ethernet Switch with PoE+

- 8 x 10/100/1000Base-T(X) and 4 x 1 GbE / 10 GbE Base-X SFP sockets
- G.8032 ERPS (Ethernet Ring Protection Switching) MSTP/RSTP/STP for Ethernet Redundancy
- Supports ACL, 802.1x User Authentication for security and 16K Bytes Jumbo frames
  IP40 / Class 1 Division 2 / ?UL 60950-1 / 62368 & KY-DONGLE DBU Support

DYMEC: Efficient and Rugged Connectivity for Power Management

Natural energy resources are vital for people's everyday life, but they are often found in dangerously tough environments. **DYMEC** specializes in industrial-grade networking products that have wide temperature tolerance and are dustproof, waterproof, and shockproof.
DYMEC products are perfect for implementing ruggedized surveillance systems and information network – essential for safe and effective energy resource acquisition and production. Using **DYMEC** products, energy production efficiency and safety are vastly improved, as supervisors or control centers can get timely work data and communicate effectively on high-bandwidth and reliable industrial networks. **DYMEC** products are the right choices for energy production and large-scale network applications: mining, oil & gas, power plants, steel factory, power management system, etc.



Key Products



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DY-7041T

5-Port Power Over Ethernet Plus Injector

- 4 x 10/100BaseT(X) PSE (IEEE 802.3af/at PoE+) & 1 x 10/100BaseT(X)
- Rugged Military Grade industrial IP-30 Housing / Class 1 Division 2 Hazardous Location
- -40° to 80°C operating temperature range



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DYMEC
AMERICAN INDUSTRIAL

DYMEC Has Over 4,000 Communications & Connectivity Products Available

WDM Systems

CWDM & DWDM MUX
Optical Attenuators
Fiber Splitters
Fiber Connectors
FTTX Solutions
DWDM Optical Transmission



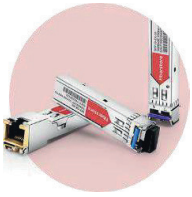


Fiber Tester & Tools

Advanced Fiber Tester
Basic Fiber Testers
Tool Kits
Fiber Splicing
Fiber Optic Cleaner
Fiber Parts

Fiber Optical Transceivers

40G/100G Transceivers
SFP+ Transceivers
SFP Transceivers
Active Optical Cables
Direct Attach Cables





ITS & Automation Switches

1GbE / 10GbE Ethernet Switches
Managed or UnManaged
Power Over Ethernet
Serial Converters & Servers
Media Converters / Power Supplies
Din-Rail or Rack Mount

Enterprise Networks

1G/10G/40G/100G Ethernet Switches
Wireless Access Point
Surveillance
Power Cords
MUX & Converter
Ethernet Media Converter





Fiber Optic Cables

MTP/MPO Fiber Cabling
Patch Cables
Pigtails
Bulk Cables
HD Fiber Cables
Fiber Cable Assemblies

Copper Cabling

Cat5e/Cat6/Cat6a/Cat7 Patch Cables
Pre-terminated Trunk Cables
Cable Assemblies
Patch Panels & Accessories
Network Tools & Testers





Racks & Enclosures

MTP/MPO Cassettes
Adapter Panels
Fiber Enclosures
Patch Panels
Rack & Cable Management

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