



DYMEC

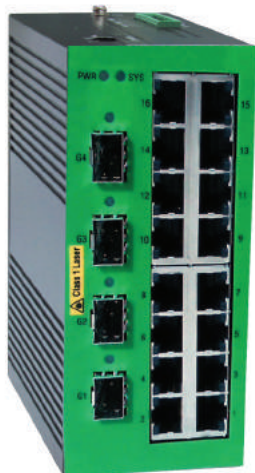
CyberLock / High Security Managed, Ethernet Switch

Intelligent CyberLock Series

**KY-3120DM - 20 Port
Managed, Din Rail, CyberLock,
High Security Ethernet Switch
SCADA - Military Grade**

The KY-3120DM Managed Ethernet switch is a purpose built CyberLock- High Security Ethernet Industrial Switch. This Industrial Ethernet switch is designed for use in industrial and outside environments.

Introducing the KY-3120DM, an industrial grade, high performance, low power, Managed Ethernet switch designed exclusively for Traffic, Industrial & Railway use.



Power:
12 - 36 Volts DC

Temperature Rating
-40C to +85C

KY-3120DM Configuration:
16 X 10/100 Base(T)X RJ45 & 4 X 100/1000 SFP Slots

**Featuring: CalTrans, NEMA TS-2, IPv6,
IP40 Enclosure, Military Grade, Class 1 Div 2
Fiber Optic Diagnostics & Measurements
ElectroMagneticPulse (EMP) Certified
Cyber Secure Video (CSV)
Clean Code Technology
DOS / DDOS Detection
Easy Configuration / Small Form Factor
Low Power Consumption
Easy IP Security with Cyber Locks**

DYMEC KY-3120DM Features:

- ☒ **Highly Efficient Integrated Design**
KY-3120DM supports multiple protocols, built-in Web Server, embedded DHCP Server & Client, IP Cyber Locks, Cyber Secure Video, DOS & DDOS Detection and Low Power consumption - smallest carbon footprint in its class.
- ☒ **Fiber Optic Diagnostics & Measurements**
Advanced Fiber Optic Diganostics & Measurements - version 3. Measure continuous optical performance combined with network notifications.
- ☒ **Integrated & Automatic Security Features**
Based on powerful silicon enhanced security detection and monitoring. Continuous security protection without operator intervention. Detection of DOS / DDOS attacks, fiber tampering, and intrusion detection
- ☒ **Intelligent Network Features**
In order to ensure the maximum video experience across challenging and disparate customer network environments, the KY-3120DM can auto-dynamically adapt to network conditions using features such as MVR, and QOS which guarantees the best quality video and audio even up to 10% packet loss.

See Your Local DYMEC Dealer for details

DYMEC is a Veteran Owned Small Business (VOSB)

DYMEC
Kansas City, Missouri, U.S.A.
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**Web Sites: DYMEC.com
DYMECDIRECT.com**

IP 40 Class 1 Div 2

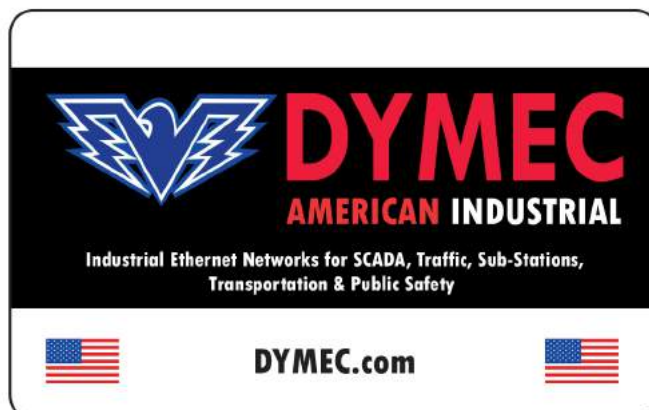
KY-3120DM

Physical Ports	
10/100Base-T(X) Ports in RJ45 Auto MDI/MDIX	16
100/1000Base-X SFP Port	4
Technology	
Ethernet Standards	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX and 100Base-FX IEEE 802.3z for 1000Base-X IEEE 802.3x for Flow control IEEE 802.3ad for LACP (Link Aggregation Control Protocol) IEEE 802.1D for STP (Spanning Tree Protocol) IEEE 802.1p for COS (Class of Service) IEEE 802.1Q for VLAN Tagging IEEE 802.1w for RSTP (Rapid Spanning Tree Protocol) IEEE 802.1s for MSTP (Multiple Spanning Tree Protocol) IEEE 802.1X for Authentication IEEE 802.1AB for LLDP (Link Layer Discovery Protocol)
MAC Table	8192 MAC addresses
Priority Queues / Security Queues	4 / 4
Processing	Store-and-Forward
Switch Properties	Switching latency : 6 μ s Switching bandwidth : 5.6Gbps Max. Number of Available VLANs : 4096 IGMP multicast groups : 1024 Port rate limiting : User Defined
Security Features	Enable/disable ports, MAC based port security // CYBER-SECURE Video Port based network access control (802.1x) & CyberLocks VLAN (802.1Q) to segregate and secure network traffic Supports Q-in-Q VLAN for performance & security to expand the VLAN space Radius centralized password management SNMP v1/v2c/v3 encrypted authentication and access security
Software Features	STP/RSTP/MSTP (IEEE 802.1D/w/s) Redundant Ring with recovery time less than 10ms over 300 switches TOS/Diffserv supported Quality of Service (802.1p) for real-time traffic VLAN (802.1Q) with VLAN tagging and GVRP supported IGMP v2/v3 (IGMP snooping support) for multicast filtering Port configuration, status, statistics, monitoring, security SNTP for synchronizing of clocks over network Supports PTP Client (Precision Time Protocol) clock synchronization DHCP Server / Client support Port Trunk support MVR (Multicast VLAN Registration support), Protocol 41 (IPv6 and IPv6 Secure)
Network Redundancy	FRP Ring (Fast Ring Protection) Open-Ring RSTPe STP RSTP MSTP
Warning / Monitoring System	Relay output for fault event alarming / Fiber Diagnostic Monitoring // DDMI version 3 Syslog server / client to record and view events Include SMTP for event warning notification via email Event selection support
RS-232 Serial Console Port	RS-232 in RJ45 connector with console cable. Baud rate setting: 9600bps, 8, N, 1
LED Indicators	
Power Indicator	Green : Power LED x 3
R.M. Indicator	Green : Indicates that the system is operating in Ring Master mode
Ring Indicator	Green : Indicates that the system is operating in Ring mode
Fault Indicator	Amber : Indicates unexpected events occurred
10/100Base-T(X) RJ45 Port Indicator	Green for port Link/Activity Amber for Duplex/Collision
100/1000Base-X SFP Port Indicator	Green for port Link/Activity

Fault Contact	
Relay	2.0 Amp @ 36 Volts DC
Power	
Input Power	12~36 Volts DC
Power Consumption (Typical)	14 Watts
Overload Current Protection	YES
Reverse Polarity Protection	YES
Physical Characteristics	
Enclosure	IP-40 / Military Grade, Class 1 Div 2
Dimensions (W x D x H)	60.2 X 115.5 X 138.5 mm (Miniature Size)
Weight (g)	760 g
Environmental	
Storage Temperature	-40 to 85°C (-40 to 185°F)
Operating Temperature	-40 to 85°C (-40 to 185°F)
Operating Humidity	5% to 97% Non-condensing
Regulatory Approvals	
EMI and EMP (NNEMP)	FCC Part 15, CISPR (EN55022) class A and Oak Ridge National Laboratory
EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-11. EN61000-4-6 (CS), EN61000-4-8
Shock	IEC60068-2-27
Free Fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	UL 60950-1
MTBF (Hours) MIL-HDBK-217F2, GB, GC, 25°C	297,689 (HOURS)
Fiber Optic / DDMI Optical Diagnostics	
DDMI version 3	Digital Diagnostic & Monitoring Interface / with Silicon Security Enhancements
Cryptologic	
Cyber-Secure Video with Clean Code Technology	NSA / CSS Coding Guidelines / with Silicon Enhancements
Exceeds NEMA TS-2 for Traffic Control Equipment	



ORDER Model	PRODUCT	DESCRIPTION
KY-3120DM		Industrial 20-Port Managed Ethernet Switch with 16 x 10/100Base-T(X) RJ45 and 4 x 100/1000Base-X, SFP Sockets, DDMI / PTP / DHCP CYBER-SECURE Video, Clean Code Technology



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WEB SITES:

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