

Look! Canary Manageable Layer-2, 28-Port PoE+ Switch

Featuring:

- **10/100/1000 UTP & Fiber-Optic Gigabit SFP Ports to Match Host Connections**
- **24 PoE+ IEEE 802.3af/at Links**
- **CLI + Web-based Management & GUI**
- **"We Deliver Advanced Switching and Increased Customer Satisfaction!"**

Canary **CMX-4324CP** Manageable twenty-four port, Power-over-Ethernet Switches are web-accessible and designed to economically provision standard network installations needing increased PoE+ port density, minimal physical size and Gigabit capacity – all with IEEE 802.3az Energy Efficient Ethernet for reduced power consumption and real cost savings.

Incorporating key Layer-2 features and optional Web-based and Command-Line-Interface (CLI) Management, the versatile **CMX-4324CP** is optimized to simplify deployment of multiple PoE devices while enabling integrated transmission of Ethernet Data, Voice-over-IP, and Video Camera traffic over (24) UTP network channels.

Application 1: Position a Canary **CMX-4324CP** Switch to provide Access Control List (ACL) protection for Operations, Administration & Management (OAM) functions while making the Integration of remote IP Cameras, VOIP Phones and Wireless Access-Points completely visible.

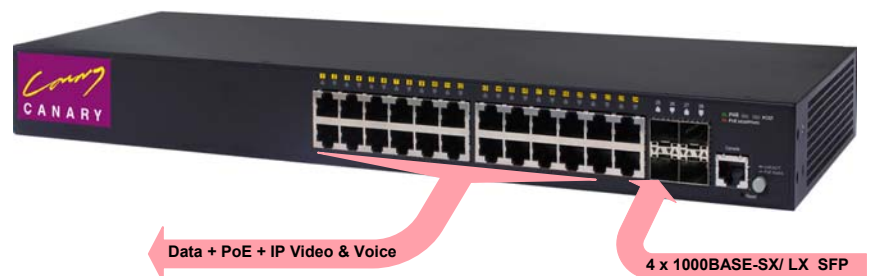
Simultaneously, utilize ARP Inspection and DHCP Snooping to Guard Screen & Filter suspect traffic arriving from unknown IP sources.

CMX-4324CP Gigabit Ethernet PoE+ copper ports represent a combined Power Budget of 370 Watts while delivering up to 30 Watts of power per UTP/RJ-45 port.

Four SFP pluggable Fiber Transceiver slots support multiple extended-range 1000BASE-SX/LX/ZX optical links to distant Hosts and redundant Switches for increased network resilience and stability.

Application 2: Deploy your **CMX-4324CP** to consolidate access and control of eight, remotely PoE+ Powered PTZ IP Cameras into a single VLAN. Isolate and secure access to the Cameras and their information then configure the Switch to *selectively forward* generated Video traffic to the user's central Digital Network Video Recorders on the same VLAN for real-time Image Viewing & Storage.

CMX-4324CP – 24-Port PoE+ & 4-Fiber, Web-Manageable Switch



▪ Plug-and-Go or Managed Fiber and RJ-45 Connections:

Choose your equipment & applications to run via PoE+. Connect each IP device to the **CMX-4324CP**; then simply power-up the Switch and distribute power to each connected IP Camera etc. Use the powerful Management utilities to precisely configure each connection to your particular needs for application-specific, secure, targeted transmissions. (*Applications 1 & 2*).

▪ Flexible, Secure, Switch/Network/Host Configurations:

ACL: Password Controlled Management Access to a **CMX-4324CP** in order to ensure PoE Domains remain secure during System configuration & operation while blocking un-authorized changes or diversion of sensitive data traffic.

Remote Access: Authorize user access from web-enabled stations to remotely maintain and monitor System & Data security, integrity and availability while allowing the export of Video – data streams to Campus or Facility operations personnel.

▪ System Monitoring with Highly Granular Statistics:

Measure Port Utilization and Bandwidth over point-to-point links to provide immediate visibility of traffic volume for Rate-Limiting and Storm-Control to ensure normal data transmission and QoS delivery; and to protect the network from un-intentional traffic-flooding or intentional malicious Denial-of-Service attacks.

Control the physical access to your Canary **CMX-4324CP** Switch and cable connections, to insure continued authorized user access – and securely deliver critical data where needed – *Easy, Secure, Information Availability!*

Canary Communications

Main Features:

Switch & Network Functions:

- 256 Active VLANs
- Port-based Mirroring
- DHCP Relay / Option 82
- Link Layer Discovery Protocol
- Link Aggregation Control Protocol
- Loop Detection, Auto Recovery Timer
- SFP DDMI Reporting & Support
- IGMP Snooping v1/v2/v3
- IGMP Querier (Layer 3)
- RMON Statistics
- STP/RSTP
- SFP Fiber Connections: – 1000BASE-SX / LX / ZX
- Typical Transmit Ranges: – 500 m, 10, 20, 30, 60 Km

Management:

- Web Graphic User Interface (GUI)
- 1 x Console port (RJ-45 to RS-232)
- Configuration Upload / Download
- Command Line Interface
 - Telnet
- Management VLAN
 - Email Alarm
- LEDs, SNMP Traps
 - SNMP v1/v2c
- Upgradeable Firmware
 - System Log (Syslog)

Network Security & QoS:

- 802.1Q Tag-based VLAN
 - Port Priority via QoS
 - Access Control List (ACL) L2/L3/L4
 - Port Isolation
 - DHCP Snooping
 - Storm Control
 - Rate Limitation
- Please contact Canary for additional technical details.*



Specifications:

Standards:

IEEE 802.3	10BASE-T
IEEE 802.3u	100BASE-TX/FX
IEEE 802.3z	1000BASE-SX/LX
IEEE 802.3ab	1000BASE-T
IEEE 802.3x	Flow Control
IEEE 802.3ad	Port Trunking with LACP
IEEE 802.3af	Power over Ethernet (PoE)
IEEE 802.3at	High Power over Ethernet (PoE+)
IEEE 802.3az	Energy Efficient Ethernet (E ³)
IEEE 802.1ab	Link Layer Discovery Protocol
IEEE 802.1d	Spanning Tree Protocol (STP)
IEEE 802.1w	Rapid Spanning Tree Protocol
IEEE 802.1p	Class of Service
IEEE 802.1q	VLAN Tagging

Performance:

Switching Fabric:	56.0 Gbps
Layer-2 Forwarding:	41.7 Mpps
Packet Buffer:	12.0 K Packets
MAC Entries:	16 K Addresses
Jumbo Frames:	10 K Octets

Input Power:

100 ~ 240 VAC, 50-60 Hz, 2.1 Amp
Internal Power Consumption: 20W Maximum

Output PoE:

Total Combined Power Output Capacity:
370 W [PoE+]. Supported-Mode: Mode A

Temperature:

Operating: 0.0° C to 40° C
Storage: -40° C to 70° C

Humidity:

Operating: 10% to 80% RH Non-condensing
Storage: 5% to 90% RH Non-condensing

Emissions:

CE Mark EN60950 & EN55022 and
FCC Part 15 of Class A

Safety:

US 21 CFR (J) & EN 60825-1 standards and
UL 1950 applications, EN 60950, CE, TUV

Mechanical & Dimensions:

Mounting: Desktop or 19" Rack-Enclosures
17.4 inch x 8.3 inch x 1.7 inch (W x D x H)
[44.0 cm x 22.0 cm x 4.4 cm] (W x D x H)

Weight:

6.4 lb. [3.1 Kg] (Shipping Weight)



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Canary Communications is an
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