# EKI-7428G-4CI EKI-7428G-4CPI

# 24G+4G Combo port L2 Managed Switch 24G+4G Combo port L2 Managed PoE Switch





## **Features**

- 24 x IEEE 802.3 af/at PoE Gigabit ports + 4 x Gigabit Copper/SFP combo ports, provide up to 30Watts per port
- SFP socket for Easy and Flexible Fiber Expansion
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB
- IXM function enables fast deployment
- Security:802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), HTTPS, SSH and SNMPv3
- Redundancy: Gigabit X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP (802.1w/1D),MSTP
- 48V<sub>DC</sub> power input (46-57 V<sub>DC</sub> for POE af , 53 -57 V<sub>DC</sub> is recommended for at) and 2 relay output
- -40 ~ 70°C wide-range operating temperature
- Support Security Pack to again (internal and external cyber threats)

## Introduction

The EKI-7428G is an industrial-class layer 2 full managed switch including 24 Gigabit ports and 4 Gigabit com or or's. It is designed for rack-mount installation, and can be deployed in demanding industrial environments. It is suitable for edge to core industrial networks. It integrates Layer and continuous software, which is optimized for scale and performance, delivering wire speed across all ports up to 56 Gbps for layer 2 traffic forwarding. In addition, the PoE designate ovides up to 30 watts per port to fulfill high power consumption device, moreover, it supports high reliability with  $-40 \sim 70^{\circ}$ C operating temperatures, and dual  $48 \text{ V}_{DC}$  input points design ensure vital network capabilities with minimum downtime. It is also embedded with Advantech IXM, which benefits users by giving them fast deployment and can dramatical training and content of the content of

## **Specifications**

#### **Communications**

• **Standard** IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.17, 802. w 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab

■ LAN 10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/″∠∠X

■ **Transmission Distance** Ethernet: Up to 100 m (4- wire cat.5 , Cat.6 RJ45

cable suggested for Giga. it poi ) SFP: Up to 110 km ( penas on SFP)

■ Transmission Speed Gigabit Coppe 10/100, 1000 Mibps, Auto-Negotiation

Gigabit Fiber: Up 'o 1000 Mbps

#### Interface

• Connectors 24 x RJ45 (Etnernet)

4 x RJ45/SFP (mini-GBIC) combo ports 4-pin removable screw terminal (Power) 3-pin removable screw terminal (Relay) 10/100T (X): Link/Activity, Duplex/Collision

 LED Indicators
 10/100T (X): Link/Activity, Duplex/Collision Gigabit Copper: Link/Activity, Speed (1000 Mbps)

SFP: Link/Activity

Console RS-232 (RJ45)

#### **Network Management**

Configuration
 Web browser, Telnet, Serial console, TFTP, SNMPv1/

v2c/v3, Port Speed/Duplex Configuration, IPv6

Switching Switching Capacity 56 Gbps

• **Switching** Switching Capacity 56 Gbps Forwarding Rate 41.6 Mpps

MAC Address 8K Jumbo Frame 9K

VLAN Group 256 (VLAN ID 1 ~ 4094)

Packet Buffer 4.1 Mbit

VLAN
 IEEE 802.1Q, GVRP, Port-based VLAN

Redundancy
 Security
 Advantech X-Ring, 802.1w/1D/1s RSTP/STP/MSTP
 IP Security, SSH, SSL, SNMPV3, HTTPS, IP Source Guard, DHCP Snooping, ARP Spoofing Prevention.

802.1X, TACACS+, Access Control List

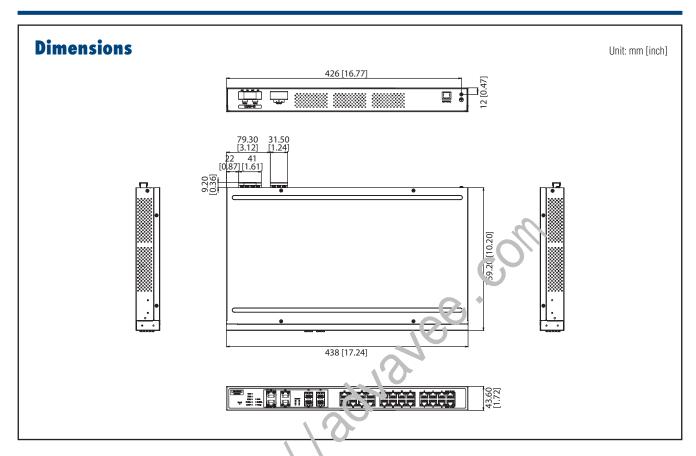
• Traffic Control IGMP Snooping/Query for multicast group

management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/DSCP priority queuing, IEEE 802.3x flow control Port Mirroring, Real-time traffic statistic, MAC Address

Diagnostics
 Port Mirroring, Real-time traffic statistic, MAC Address
 Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

#### Mechanism

Mounting
 1U 19" Rack mount



#### **Power**

- Power Consumption 20W @ 24V (EKI-7428G-4CI)

20W @ 48V (EKI-7428G-4CPI)

 Power Budget 685W (EKI-7428G-4CPI)

> EKI-7428G-4CI 12-48 V EKI-7428G-4CPI 48 % (46 5 57 VDC),

53 -57 V<sub>DC</sub> is recommended for 802.3at

• Fault Output 2 Relay Outputs

### **Protection**

Power Input

 Power Reverse Present Overload Current Present

#### **Environment**

• Operating Temperature  $-40 \sim 70^{\circ}\text{C} (-40 \sim 158^{\circ}\text{F})$ 

 Storage Temperature -40 ~ 85°C (-40 ~ 185°F) Operating Humidity 10 ~ 95% (non-condensing)

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MTBF EKI-7428-4CI: 787,940 hours

EKI-7428G-4CPI: 424,517 hours

#### Certification

Safety UL 61010-2-201 EMI CE FCC EN55022 Class A

EMS EN 61000-4-2

EN 61000-4-3

EN 61000-4-4

EN 61000-4-5

EN 61000-4-6

EN 61000-4-8

Shock IEC 60068-2-27

Freefall IEC 60068-2-32

Vibration IEC 60068-2-6

 Railway Track Side EN 50121-4

Patent http://www.advantech.com/legal/patent

# **Ordering Information**

■ EKI-7428G-4CI-AE 24GE+4G Combo Port Managed Ethernet Switch w/ Wide Temp

 EKI-7428G-4CPI-AE 24G+4G Combo Port POE Managed Ethernet Switch

w/ Wide Temp