# 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 against 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 combo ports. 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 2 switching 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 design provides up to 30 watts per port to fulfill high power consumption device, moreover, it supports high reliability with -40 ~ 70°C operating temperatures, and dual 48 Vpc input power 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 dramatically save engineer's time and costs.

# **Specifications**

### **Communications**

<ul> <li>Standard</li> </ul>	IEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X, 802.3ad, 802.3ab	<ul> <li>Config</li> </ul>
- LAN	10/100/1000Base-T (X), Optional 100Base-FX, 1000Base-SX/LX/LHX/XD/ZX/EZX	<ul><li>VLAN</li><li>Redur</li></ul>
<ul> <li>Transmission Distance</li> </ul>	Ethernet: Up to 100 m (4- wire Cat.5e, Cat.6 RJ45 cable suggested for Gigabit port) SFP: Up to 110 km (depends on SFP)	<ul> <li>Secur</li> </ul>
<ul> <li>Transmission Speed</li> </ul>	Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: Up to 1000 Mbps	<ul> <li>Traffic</li> </ul>
Interface		
<ul> <li>Connectors</li> </ul>	24 x RJ45 (Ethernet) 4 x RJ45/SFP (mini-GBIC) combo ports 4-pin removable screw terminal (Power)	• Diagn
	3-pin removable screw terminal (Relay)	Mechar
LED Indicators	10/100T (X): Link/Activity, Duplex/Collision	Enclose
<ul> <li>Console</li> </ul>	Gigabit Copper: Link/Activity, Speed (1000 Mbps) SFP: Link/Activity RS-232 (RJ45)	= Dimei = Moun
00110010		Power

### **Network Management**

Configuration	Web browser, Telnet, Serial console, TFTP, SNMPv1/ v2c/v3, Port Speed/Duplex Configuration, IPv6	
VLAN	IEEE 802.1Q, GVRP, Port-based VLAN	
Redundancy	Advantech X-Ring, 802.1w/1D/1s RSTP/STP/MSTP	
Security	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	
Diagnostics	Port Mirroring, Real-time traffic statistic, MAC Address Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON	
echanism		
Enclosure	IP30, metal shell with solid mounting kits	
Dimensions (W x H x D	) 438 x 43.6 x 259.20 mm (17.24" x 1.72" x 10.2")	

ting 1U 19" Rack mount

- Power Consumption 20W @ 24V (EKI-7428G-4CI) 20W @ 48V (EKI-7428G-4CPI)
- Power Budget 685W (EKI-7428G-4CPI) EKI-7428G-4CI 12-48 V<sub>DC</sub> Power Input EKI-7428G-4CPI 48 V<sub>DC</sub> (46 to 57 V<sub>DC</sub>), 53 -57 V<sub>DC</sub> is recommended for 802.3at 2 Relay Outputs
- Fault Output

### Protection

- Power Reverse Present Overload Current Present
- AD\ANTECH Industrial Ethernet Soultions

# EKI-7428-4CI **EKI-7428-4CPI**



### Environment

• Operating Temperature -40 ~ 70°C (-40 ~ 158°F)

EKI-7428-4CI: 787,940 hours EKI-7428G-4CPI: 424,517 hours

UL 61010-2-201

EN 61000-4-5 EN 61000-4-6 EN 61000-4-8

IEC 60068-2-27

IEC 60068-2-32

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

### Certification

- Safety
- = EMI CE FCC EN55022 Class A EN 61000-4-2
- EMS
  - EN 61000-4-3 EN 61000-4-4

- Shock
- Freefall
- IEC 60068-2-6 Vibration EN 50121-4
- Railway Track Side
- 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