# 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 cincernal 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 ords. 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 confidence, 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 to ovides 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 V<sub>DC</sub> input points high reliabilities with minimum downtime. It is also embedded with Advantech IXM, which benefits users by giving them fast deployment and can dra mall may save engineer's time and costs.

## **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/ZZX

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

cable suggested for Gigal it poil) SFP: Up to 110 km ( apenac on SFP)

Gigabit Copper: 10/100, 1000 Nibps, Auto-Negotiation Transmission Speed

Gigabit Fiber: Up to 1000 Mbps

#### Interface

24 x RJ45 (Etnernet) Connectors

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 Gigabit Copper: Link/Activity, Speed (1000 Mbps)

SFP: Link/Activity

RS-232 (RJ45) Console

All product specifications are subject to change without notice.

#### **Network Management**

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

v2c/v3, Port Speed/Duplex Configuration, IPv6 Switching Capacity 56 Gbps

Switching 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

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

802.1X, TACACS+, Access Control List

IGMP Snooping/Query for multicast group Traffic Control

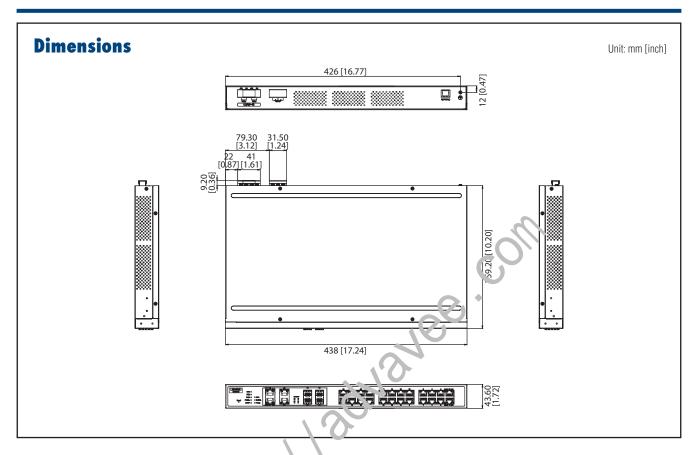
management, Port Trunking, Static/802.3ad, LACP Rate limit and storm control, IEEE 802.1p QoS CoS/TOS/ DSCP priority queuing, IEEE 802.3x flow control Port Mirroring, Real-time traffic statistic, MAC Address

Diagnostics Table, SNTP, Syslog, E-Mail Alert, SNMP Trap, RMON

#### Mechanism

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")

Mounting 1U 19" Rack mount



#### **Power**

Power Consumption20W @ 24V (EKI-7428G-4CI)

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

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

■ **Power Input** EKI-7428G-4Cl 12-48 V<sub>L</sub>

EKI-7428G-4CPI 48 100 (46 10 57 V<sub>DC</sub>),

53 -57  $V_{\text{DC}}$  is recommended for 802.3at

• Fault Output 2 Relay Outputs

#### **Protection**

Power Reverse PresentOverload 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
Storage Humidity
10 ~ 95% (non-condensing)
10 ~ 95% (non-condensing)

■ 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