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/FTLS/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_{DC} power input (46-57 V_{DC} for POE af , 53 -57 V_{DC} 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 $-40 \sim 70^{\circ}$ C operating temperatures, and dual 48 V_{DC} 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

StandardIEEE 802.3, 802.3u, 802.3x, 802.3z, 802.1D, 802.1w, 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/EZX

TUUUBASE-SX/LX/LHX/XD/ZX/EZX

• Transmission Distance 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)

• **Transmission Speed** Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation

Gigabit Fiber: Up to 1000 Mbps

Interface

Connectors 24 x RJ45 (Ethernet)

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
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

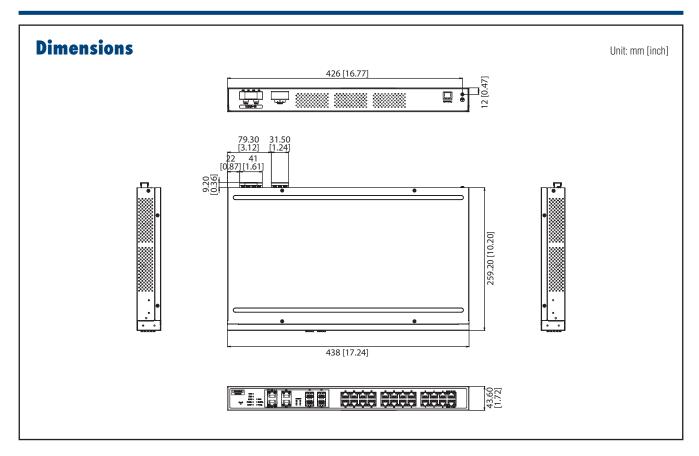
• Traffic Control IGMP Snooping/Query for multicast group

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

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

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

■ **Power Input** EKI-7428G-4CI 12-48 V_{DC}

EKI-7428G-4CPI 48 V_{DC} (46 to 57 $V_{\text{DC}})\text{,}$

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

• Fault Output 2 Relay Outputs

Protection

Power Reverse PresentOverload Current Present

Environment

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

• Storage Temperature $-40 \sim 85^{\circ}\text{C} \ (-40 \sim 185^{\circ}\text{F})$

• Operating Humidity 10 ~ 95% (non-condensing)

Storage Humidity 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

Mouser Electronics

Authorized Distributor

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