EKI-7708G-4F EKI-7708G-4FI

4GE+4G SFP Port Gigabit Managed **Redundant Industrial Switch**



Features

- 4 Gigabit ports + 4 SFP ports
- SFP socket for Easy and Flexible Fiber Expansion
- Redundancy: X-Ring Pro (ultra high-speed recovery time < 20 ms), RSTP/STP • (802.1w/1D)
- IXM function enables fast deployment
- Security: 802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption), RADIUS
- Management: SNMP v1/v2c/v3, WEB, Telnet, Standard MIB, Private MIB
- NEMA TS2 for Traffic Control
- EN50121-4 approval for Railway trackside deployment
- -40 ~ 75°C wide-range operating temperature (EKI-7708G-4FI)
- Dual 12 ~ 48 V_{DC} power input and 1 relay output

Introduction

EKI-7708G-4F/4FI provides users with abundant ports to connect to many devices with 4 Gigabit ports and 4 SFP (mini-GBIC) ports. It is embedded with Advantech's IXM function, which can benefit users for fast deployment and can dramatically save engineers time and cost. The EKI-7708G series also support NMS to help IT managers with networking maintenance and failure prevention. Finally, the EKI-7708G series is equipped with X-Ring Pro which can achieve ultra high speed recovery time of less than 20 ms to ensure network stability. The switch also features a wide -40° to 75°C operating temperature (EKI-7708G-4FI) and NEMA TS2 rating, making the switch an ideal solution for use in traffic applications. EKI-7708G-4F/4FI has successfully passed the EN50121-4 European railway standard requirement for emissions and railway platform and trackside deployment.

Certification

Specifications

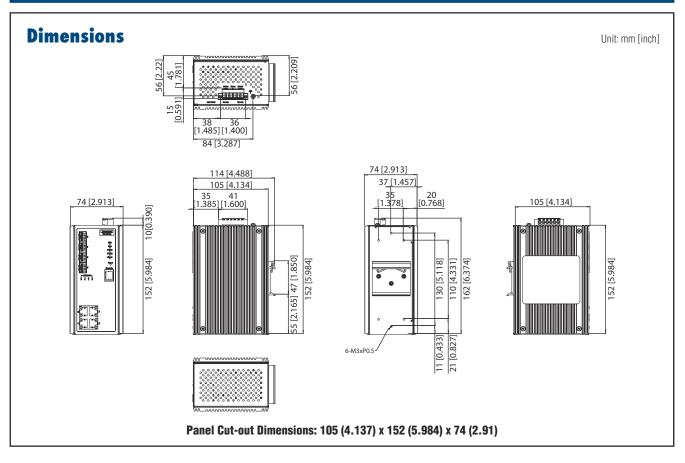
Interface

- Fault Output

| Interface | | outinoution | |
|---|--|-------------------------------------|--|
| I/O Port | 4 x 10/100/1000Base-T/TX RJ-45 | EMI | CE, FCC Class A |
| - | 4 x SFP (mini-GBIC) port | = EMC | EN 61000-4-2 |
| Console port | RS-232 (RJ45) | | EN 61000-4-3 |
| Power Connector | 6-pin screw Terminal Block (including relay) | | EN 61000-4-4 |
| | · ···································· | | EN 61000-4-5 |
| Physical | | | EN 61000-4-6 |
| Enclosure | Metal Shell | | EN 61000-4-8 EN50121-4* |
| Protection Class | IP 30 | Shock | |
| Installation | DIN-Rail | | IEC 60068-2-27 |
| Dimensions (W x H x D) | 74 x 152 x 105 mm (2.91" x 5.98" x 4.13") | Freefall | IEC 60068-2-32 |
| | 74 × 152 × 165 mm (2.51 × 5.50 × 4.15) | Vibration | IEC 60068-2-6 |
| LED Display | | Traffic control | NEMA TS2* |
| System LED | PWR1, PWR2, SYS, Alarm and R.M. | *= Compliant | |
| Port LED | Link / Speed / Activity | | |
| | Link / Opecu / Activity | L2 Features | |
| Environment | | L2 MAC Address | 8K |
| Operating Temperature | -40 ~ 75°C (-40 ~ 167°F) (7708G-4FI) | Jumbo Frame | 9216 Bytes |
| - operating reinperature | -10 ~ 60°C (-40 ~ 140°F) (7708G-4F) | VLAN Group | 256 (VLAN ID 1 ~ 4094) |
| Storage Temperature | -40 ~ 85°C | VLAN Arrange | Port based VLAN, Q-in-Q (VLAN Stacking), GVRP |
| Ambient Relative Humidity | 10 ~ 95% (non-condensing) | Port Mirroring | Per port, Multi-source port, |
| Humidity | 10 ~ 95% (non-condensing) | IP Multicast | IGMP Snooping v1/v2/v3, MLD |
| - Humany | 10 ~ 95 % (Holf-condensing) | | Snooping, IGMP Immediate leave |
| Power | | Storm Control | Broadcast, Multicast, Unknown unicast |
| Power Consumption | 12.1W @ 48V _{DC} (System) | Redundancy | IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE |
| Power Input | $12 \sim 48 V_{DC}$, redundant dual power input | - | 802.1w-RSTP, X-Ring Pro, with ultra high-speed |
| Fault Output | 1 Belay Output | | recovery time less than 20ms |

1 Relay Output

EKI-7708G-4F/4FI



QoS

- Priority Queue WRR (Weighted Round Robin), SP (Strict Scheduling Scheduling Priority) Hybrid Priority - Class of Service IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
 - Ingress Rate limit, Egress Rate limit

Trunking

Static, Dynamic

SNTP client

- Rate Limiting
- Link Aggregation

Security

- Port Security
- Authentication

Management

- DHCP
- Access
- Software upgrade
- NTP

Ordering Information

- EKI-7708G-4FI-AE
 - 4GE + 4G SFP Port Managed Ethernet Switch w/Wide Temp
- EKI-7708G-4F-AE
- 4GE + 4G SFP Port Managed Ethernet Switch

Client, Server, Option66/67/82 SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB,

IEEE 802.3ad Dynamic Port Trunking, Static Port

802.1x (Port-Based, MD5/TLS/TTLS/PEAP Encryption)

- Private MIB SSH2.0, SSL
- Security access TFTP, HTTP, Dual Image