

EKI-7708E

EKI-7708E-2SI
EKI-7708E-2MI

6FE+2x100M Multi/Single-Mode SC Fiber Port Industrial Managed Ethernet Switch



Features

- Provides 6*FE ports with auto MDI/MDIX
- Provide 2x100M SC Single-mode 20km/ Multimode 2km ports
- Support 10/100Mbps auto negotiation
- Support jumbo frame transmission up to 10k
- Provide slim size, DIN-rail with IP30 metal mechanism
- Support redundant 12V~48V DC power input and P-fail relay
- Support RS-232 (RJ45) console

Specifications

Interfaces / Communications

- **I/O Port** 10/100BASE-T/TX RJ-45
2 x 100M fiber SC type connector
Auto-Negotiation, Full/Half Duplex Mode
Auto MDI/MDI-X Connection
- **Standards** IEEE 802.3 for 10BaseT
IEEE 802.3u for 100BaseT(X)/FX
IEEE 802.3x for Flow Control
- **Transmission Distance** Ethernet: Up to 100 m (328 ft)
Fiber:
Multi-mode: Up to 2km (EKI-7708E-2MI)
Single-mode: Up to 20km (EKI-7708E-2SI)
- **Console port** RS-232 (RJ45)
- **Power Connector** 6-pin Terminal Block (including relay)
- **Optical Fiber**
Multi-mode
(EKI-7708E-2MI)
Wavelength: 1310 nm
Tx Power: -10/-18 dBm
Rx Sensitivity: -30 dBm
Single-mode
(EKI-7708E-2SI)
Wavelength: 1310 nm
Tx Power: -3/-15 dBm
Rx Sensitivity: -32 dBm

Physical

- **Enclosure** Metal Shell
- **Protection Class** IP 30
- **Installation** DIN-Rail
- **Dimensions (W x H x D)** 39 x 127 x 101 mm

LED Indicators

- **System LED** P1, P2, P-Fail, SYS, R.M.
- **Port LED** Fiber: LNK/ACT
Ethernet: LNK/ACT

Environment

- **Operating Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Ambient Relative Humidity** 10-95% (non-condensing)
- **MTBF** Mean Time Between Failure > 1,000,000 hours@25 degree C

Power

- **Power Consumption** 6.5W
- **Power Input** 12 ~ 48 V_{DC}, redundant dual power input
- **Fault Output** 1 Relay Output

Certification

- **Safety** ETL EN62368-1:2014
- **EMI** CE, CISPR 32, FCC Part 15B 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
- **EMC** EN 61000-6-2
EN 61000-6-4
- **Shock** IEC 60068-2-27
- **Freefall** IEC 60068-2-32
- **Vibration** IEC 60068-2-6

Switch Properties

- **Switching Capacity** 1.6 Gbps
- **MAC Table Size** 8K
- **Jumbo Frame** 1,0240 Bytes
- **Packet Buffer Size** 4.1Mb
- **Max. IGMP Group** 256
- **Max. VLAN Group** 256 (VLAN ID 1 ~ 4094)

L2 Features

- **VLAN Arrange** 802.1Q Tag-based VLAN, 802.1ad QinQ VLAN Stacking
- **Port Mirroring** 1 to 1, N to 1
Max. Mirror Session: 4
- **RSPAN** Remote Switched Port Analysis
- **GARP** GVRP, GMRP
- **IP Multicast** IGMP Snooping v1/v2/v3, MLD Snooping, IGMP Immediate leave
- **Storm Control** Broadcast, Multicast, Unknown unicast
- **LLDP** 802.1ab LLDP, LLDP-MED
- **Industrial Protocol** Modbus/TCP
- **Redundancy** IEEE 802.1D-STP, IEEE 802.1s-MSTP, IEEE 802.1w-RSTP, X-Ring Pro, ERPS(G.8032)

QoS

- **Priority Queue Scheduling** WRR (Weighted Round Robin), SP (Strict Scheduling Priority) Hybrid Priority, Max. Priority Queues: 8
- **Class of Service** IEEE 802.1p Based CoS, IP TOS, DSCP based CoS
- **Rate Limiting** Ingress Rate limit, Egress Rate limit
- **Link Aggregation** IEEE 802.3ad Dynamic Port Trunking, Static Port Trunking

Security

- **Port Security** Static/Dynamic MAC, Max. Learning Limit, MAC Violation Notice
- **802.1X** Port-based/MAC-based Authentication (MD5/PEAP/TLS/TTLS Encryption)
- **MAB** MAC Authentication Bypass
- **Authentication** RADIUS, TACAS+
- **IP Security** IP Source Guard, DHCP Snooping, ARP Spoofing Prevention
- **ACL** Access Control List (IP-ACL, MAC-ACL)
Max. ACL Entries: 128

Management

- **DHCP** Client, Server, Option66/67/82, DHCP Relay
- **Access** SNMP v1/v2c/v3, WEB, Telnet, RMON, Standard MIB-II, Private MIB, Ethernet-Like MIB, RMON MIB (Group 1, 2, 3, 9)
- **Security access** SSH2.0, SSL
- **Software upgrade** TFTP, SFTP, HTTP, Dual Image
- **NTP** SNTP client

Ordering Information

- **EKI-7708E-2MI-AE** 6FE+2x 100M Multi-mode SC Fiber Managed Ethernet Switch with wide temperature operation
- **EKI-7708E-2SI-AE** 6FE+2x 100M Single-mode SC Fiber Managed Ethernet Switch with wide temperature operation