EKI-2725 EKI-2728

5-port Gigabit Unmanaged Industrial **Ethernet Switch**

8-port Gigabit Unmanaged Industrial **Ethernet Switch**



Features

- Provides 5 or 8 Gigabit Ethernet ports with Auto MDI/MDI-X
- Supports 10/100/1000Mbps Auto Negotiation
- Supports jumbo frame transmission up to 9kbytes
- Supports 4,000 V_{DC} Ethernet ESD protection
- Provides surge (EFT) protection 3,000 V_{DC} for power line
- Provides Slim size, DIN-rail with IP30 metal mechanism
- Supports Redundant 12 ~ 48 V_{DC} power input and P-Fail Relay
- Provides broadcast storm protection

Introduction

The EKI-2725/2728 supports Gigabit Ethernet and has a +12 ~ 48 Vpc redundant power input design, and is secured with a double protection mechanism; Power Polarity Reverse Protect and an Overload Current Resetable Fuse. The former tolerates reverse power wiring (devices will not be damaged if the plus and minus power cables are mixed, even continuing to operate normally. The later secures the system from overload currents; when the power supply turns normal, EKI-2725/2728 will automatically get back to work. Each port of EKI-2725/2728 has 2 LED's to show the link status transmission speed and collision status. It also provides a relay output for an event alarm. In the event of a power failure, the built-in LED will activate the alarm to notify administrators. Engineers can simply verify the hardware status by checking the LED, and have troubleshooting easy and quick. EKI-2725/2728 comes with compact metal housing that rates IP30 to help against from dusty industrial environments.

Specifications

Communications

Standard IEEE 802.3, 802.3u, 802.3x, 802.3ab LAN 100Base-TX, 10/1000Base-T

• Transmission Distance Up to 100m (4-wire Cat.5e, Cat.6 RJ-45 cable)

 Transmission Speed Up to 1000 Mbps

Interface

Connectors 5 x RJ-45 (EKI-2725) or 8 x RJ-45 (EKI-2728) 6-pin removable screw terminal (power & relay)

LED Indicators P1. P2. P-Fail

10/100/1000T(X): Link/Activity, Duplex/Collision

Power

 Power Consumption Max. 4.6W

 Power Input 12 ~ 48 V_{DC}, redundant dual inputs

 Fault Output 1 Relay Output

Mechanism

Dimensions (W x H x D) 37 x 140 x 95 mm

Enclosure IP30, Metal shell with solid mounting kits

DIN-rail. Wall Mounting

Protection

ESD (Ethernet) 4,000 V_{DC} Surge (EFT for power) 3,000 V_{DC} Power Reverse

Overload EKI-2725: 0.9 A @ 12 VDC (Re-settable Fuse)

EKI-2728: 1.6 A @ 12 V_{DC} (Re-settable Fuse)

Environment

• Operating Temperature $-10 \sim 60^{\circ} \text{ C} (14 \sim 140^{\circ} \text{ F})$ • Storage Temperature $-40 \sim 85^{\circ} \text{ C } (-40 \sim 185^{\circ} \text{ F})$ Operating Humidity 5 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

MTBF 627,958 hrs

Certifications

Safety UL 60950-1, CAN/CSA-C22.2 No.60950

EMC U.S.A.: FCC Part 15 CISPR 22

EU: EN55011, EN61000-6-4 EN55022 Class A, EN61000-3-2/3 EN55024

IEC61000-4-2/3/4/5/6/8 EN61000-6-2

Shock IEC60068-2-27 Freefall IEC60068-2-32 IEC60068-2-6 Vibration

Ordering Information

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