

## Features

(3) Communicates with SCADA software via Modbus/TCP
(3) Communicates with NMS (Networking management system) via SNMP
(3) Port-based QoS for deterministic data transmission
(3) Wide operating temperature range of $-40 \sim 75^{\circ} \mathrm{C}$ (EKI-5729FI only)
(3) Wide range power input of $12 \sim 48 \mathrm{~V}_{\mathrm{DC}}\left(8.4 \sim 52.8 \mathrm{~V}_{\mathrm{DC}}\right)$
(3) EMS Level 3 protection for extreme outdoor environments
(3) IEEE 802.3az Energy-Efficient Ethernet
(3) Jumbo frame support (up to 9,216 Bytes)
(3) Supports redundant $12 \sim 48 \mathrm{~V}_{\mathrm{DC}}$ power input and P-Fail relay
(3) Loop detection

## Introduction

The EKI-5729F and EKI-5729FI are the world's first convergence switches for process control and IT networking management. This line of switches use Modbus/TCP to communicate with SCADA software and SNMP to communicate with NMS simultaneously, thereby enabling full read control over devices for control engineers and IT personnel. They come with the port-based QoS for deterministic data transmission, allowing specific ports to prioritize traffic while delaying less important data via the remaining ports. The series use the highest quality components and has a wide operating temperature range of $-40 \sim 75^{\circ} \mathrm{C}$ (EKI-5729FI only) along with EMS Level 3 protection to protect against electromagnetic interference.

## Specifications

## Communications

| (3) Standard | IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az, 802.3ab |
| :---: | :---: |
| (3) | LAN 10/100/1000BASE-TX, optional 100BASE-FX, 1000BASESX/LX/LHX/XD/ZX/EZX |
| (3) Transmission Distance Ethernet:UP to 100 m (4-wire Cat.5e, Cat. 6 |  |
| RJ-45 |  |
|  | cable suggested for Gigabit port) SFP. UP to 110 km (depends on SFP) |
| (3) | Transmission Speed Ethernet: |
| 10/100/1000 Mbps Auto-Negotiation |  |
|  | Gigabit Copper: 10/100/1000 Mbps, Auto-Negotiation Gigabit Fiber: UP to 1000 Mbps |
| Interface |  |
| (3) | Connectors $8 \times \mathrm{RJ45}$ |
|  | $2 \times$ SFP ports |
|  | 6 -pin removable screw terminal (power \& relay) |
| (3) | LEDIndicators P1, P2, P-Fail, Loop detection |
|  | 10/100/1000T(X): Link/Activity, Speed SFP: Link/Activity |
| Switch Properties |  |
| (3) | MAC TableSize 8K |
| (3) | Packet Buffer Size 4.1 M bit |
| (3) | Switching Capacity 20 Gbps |
| (3) | Jumbo Frame 9216 bytes |
| Power |  |
| (3) | Power Consumption Max. 6.8 W |
| (3) redundantdualinputs | Power Input 12~48V $\mathrm{V}_{\text {DC }}(8.4 \sim 52.8 \mathrm{VCC})$, |
| (3) | Fault Output 1 Relay Output |

## Protection

| (3) | Reverse Polarity | Present |
| :--- | :--- | :--- |
| (3) | Overload Current | Present |

## Environment

(3) Operating Temperature EKI-5729F:-10~60 ${ }^{\circ} \mathrm{C}\left(14 \sim 140^{\circ} \mathrm{F}\right)$

EKI-5729FI: -40 ~ $75^{\circ} \mathrm{C}$ ( -40 ~ $167^{\circ} \mathrm{F}$ )
(3)
$185^{\circ} \mathrm{F}$ )
(3)
condensing) (3)
condensing)
(3)

Storage Temperature $\quad-40 \sim 85^{\circ} \mathrm{C}(-40 \sim$
Operating Humidity
10 ~ 95\% (non-
Storage Humidity
10 ~ 95\% (non-
MTBF 3,858,286 hours

## Certification

(3) EMI
(3) EMS

## Mechanism

(3) Dimensions (W x H x D) $43 \times 120 \times 84 \mathrm{~mm}$

[^0]Safety IEC/EN 60950-1, UL508, Class 1
Division 2, IECEX, ATEX, e-Mark
EMC CE, FCC, e-Mark
EN55011/55022 Class A, EN61000-6-4, FCC Part 15
Subpart B Class A
EN 61000-4-2 (Level 3)
EN 61000-4-3 (Level 3)
EN 61000-4-4 (Level 3)
EN 61000-4-5 (Level 3)
EN 61000-4-6 (Level 3)
EN 61000-4-8 (Level 3)
IEC 60068-2-27
Freefall $\quad$ IEC 60068-2-32
Vibration $\quad$ IEC 60068-2-6

## Dimensions



## Ordering Information

(3)

EKI-5729F $\quad 8$-port+2 SFP Gigabit Ethernet ProView Switch
EKI-5729FI 8-port+2 SFP Gigabit Ethernet ProView Switch with Wide Operating Temperature Range


[^0]:    (3) Shock
    (3)
    (3)

