COMMS


## 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) $-40 \sim 75^{\circ} \mathrm{C}$ operating temperature range
(EKI-5525SI/SI-ST,EKI-5525MI/MI-ST only)
$12 \sim 48 V_{D C}(8.4 \sim 52.8 \mathrm{VDC}$ ) wide-range power input
EMS level 3 protection for extreme outdoor environments
IEEE 802.3az Energy Efficient Ethernet (EEE)
Jumbo Frame Support (Up to 9,216 Bytes)
Supports redundant $12 \sim 48 \mathrm{~V}$ DC power input and $P$-Fail relay Loop detection

## Introduction

The EKI-5525S/SI/S-ST/SI-ST and EKI-5525M/MI/M-ST/MI-ST are the world'sfirstconvergence switches for process control and IT networking management. This series uses Modbus/ TCP to communicate with the SCADA software and SNMP to communicate with NMS (Networking Management System) at the same time, thereby allowing full read control over the devices eitherfor control engineers orfor IT. The devices come withthe Portbased QoS fordeterministic datatransmission allowsthe priority ports to prioritize the traffic coming over those ports and delay the less immediately necessary data over the remaining ports. EKI-5525S/SI/S-ST/SI-ST and EKI-5525M/MIM-ST/MI-ST switches use the highest quality components, to enable the range to operate in temperatures of between -40 and $75^{\circ} \mathrm{C}$ along with EMS Level 3 protection to repel electromagnetic interface for industrial resistance.

## Specifications

## Communications

| (3) Standard | IEEE 802.3, 802.3u, 802.3x, 802.1p, 802.3az |
| :--- | :--- |
| (3) | LAN 10/100Base-T(X), 100Base-FX. |
| (3) | Transmission Distance Ethernet: Up |
| to 100 m | Multi-mode Fiber:Upto2km (EKI-5525M Series) |
| (3) cal FberOpti | Single-mode Fiber: Up to 30 km (EKI-5525S Series) |

## Multi-Mode (EKI-5525M/MI/M-ST/MI-ST)

Wavelength:1310nm
Tx Power: -14/-20 dBm
Rx Sensitivity: -32 dBm
Parameters: 50/125 um, 62.5/125 um
Single-Mode (EKI-5525S/SI/S-ST/SI-ST)
Wavelength: 1310 nm
Tx Power: -8/-15 dBm
Rx Sensitivity: -34 dBm
Parameters: $9 / 125$ um
Transmission Speed
Up to 100 Mbps
Interface

Protection

| (3) <br> (3) | Reverse Polarity Present Overload Current | Present |
| :---: | :---: | :---: |
| Environment |  |  |
| (3) | Operating Temperature | EKI-5525S/S-ST/M/M- |
| (3) | EKI-5525SI/SI-ST/MI/MI-ST: $-40 \sim 75^{\circ} \mathrm{C}\left(-40 \sim 167^{\circ} \mathrm{F}\right)$ <br> Storage Temperature $\quad-40 \sim 75^{\circ} \mathrm{C}\left(-40 \sim 167^{\circ} \mathrm{F}\right)$ |  |
| (3) condensing) | Operating Humidity | 10 ~ 95\% (non- |
| (3) condensing) | Storage Humidity | $10 \sim 95 \%$ (non- |
| (3) | MTBF 282,703 |  |

## Certification






## Ordering Information

(3)

EKI-5525S
4-port $+1 \times 100$ FX port (Single -mode,
SC type),

Mechanism (3)<br>imensions (W<br>xHxD)

mode,
SC
type),
Fast
Ethernet
Ethernet
ProView
Switch
with
Temperat
ure 4-
port + 1
x100FX
port
(Multi-
mode,
SC
type),
Fast Ethernet
ProView Switch
4-port+1 x100FX
port(Multi-mode,
SCtype)
Fast
Ethern
et
ProVie
W
Switch
with
Wide
ature 4 -
port+
1
x100F
Xport
(Singl
mode,
ST
type),
Fast Ethernet
ProView Switch
4-port + 1 x100FX
port (Single-mode,
ST type),
Fast
Ethernet
ProView
Switch
with
Wide
Temperat
ure 4-
port + 1
x100FX
port
(Multi-
mode,
ST
type)

| ${ }^{3}$ (3) |  |  |
| :--- | :--- | :--- |
| with solid mounting kits | Enclosure | IP30, metal shell |
| Mounting | DIN-Rail, Wall |  |



