

# EKI-1511X EKI-1512X

1-port RS-422/485 Serial Device Server

2-port RS-422/485 Serial Device Server



## Features

- Compact, slim designed IP30 metal case
- EMC Level 3 protection
- Provides COM port redirection (Virtual COM), TCP and UDP operation modes
- Supports up to 921.6 kbps, and any baud rate setting
- Configuration utility supports 32-bit/64-bit Windows XP/7/8/8.1, Windows Server 2003/2008/2008 R2/2012/2012 R2, and Linux
- Automatic RS-485 data flow control
- Terminal block for easy wiring

## Introduction

The EKI-1511X and EKI-1512X are serial device servers which connect RS-422/485 serial devices, such as PLC, meters, and sensors to an IP-based Ethernet LAN. They allow nearly any device with serial ports to connect and share an Ethernet network. EKI-1511X and EKI-1512X provide various operation modes: COM port redirection (Virtual COM port), TCP server, TCP Client, and UDP mode. With COM port redirection mode, standard serial operation calls are transparently redirected to the EKI-1511X and EKI-1512X, guaranteeing compatibility with legacy serial devices and enabling backward compatibility with existing software. With TCP server, TCP client and UDP modes, the EKI-1511X and EKI-1512X ensure the compatibility of network software that uses a standard network API. Moreover you can make serial devices communicate with other devices peer-to-peer, without any intermediate host PCs and software programming. With a compact and slim IP30 metal case, EKI-1511X and EKI-1512X can be installed into a field cabinet easily. EKI-1511X and EKI-1512X provide terminal block connector for RS-422/485 that user can setup the physical wiring without any manually made connector. And with EMC level 3 protection, EKI-1511X and EKI-1512X can work in harsher working environments than other serial device servers.

## Specifications

### Ethernet Communications

- **Compatibility** IEEE 802.3, IEEE 802.3u
- **Speed** 10/100 Mbps, auto-sensing
- **No. of Ports** 1
- **Port Connector** RJ45
- **Protection** Built-in 1.5 KV magnetic isolation

### Serial Communications

- **Port Type** RS-422/485, software selectable
- **No. of Ports** EKI-1511X: 1  
EKI-1512X: 2
- **Port Connector** Terminal Block
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, Odd, Even, Space, Mark
- **Flow Control** XON/XOFF, RTS/CTS
- **Baud Rate** 50 bps ~ 921.6 kbps, any baud rate setting
- **Serial Signals** RS-422: TxD+, TxD-, RxD+, RxD-, GND  
RS-485: Data+, Data-, GND
- **Protection** Built-in 15 KV ESD for all signals

### Software

- **Driver Support** 32-bit/64-bit Windows XP/7/8/8.1, Windows Server 2003/2008/2008 R2/2012/2012 R2 and Linux
- **Operation Modes** COM port redirection mode (Virtual COM)  
TCP/UDP server (polling) mode  
TCP/UDP client (event handling) mode  
Pair connection (peer to peer) mode
- **Configuration** Windows utility, Web Browser

### Mechanics

- **Dimensions (W x H x D)** 85 x 120 x 26 mm (3.35" x 4.72" x 1.02")
- **Enclosure** Metal with solid mounting hardware
- **Mounting** Wall
- **Weight** EKI-1511X: 250g  
EKI-1512X: 275g

### General

- **LED Indicators** System: Power, System Status  
LAN: Speed, Link/Active  
Serial: Tx, Rx

### Power Requirements

- **Input** 10 ~ 30 V<sub>DC</sub>
- **Connector** Terminal block
- **Consumption** EKI-1511X: 2.5 W  
EKI-1512X: 2.5 W

### Environment

- **Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
- **Storage Temperature** -40 ~ 85°C (-40 ~ 185°F)
- **Operating Humidity** 10 ~ 95% RH

### Regulatory Approvals

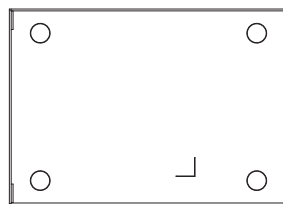
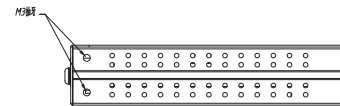
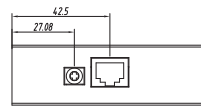
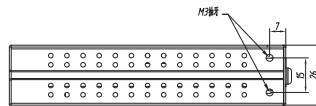
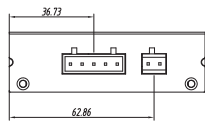
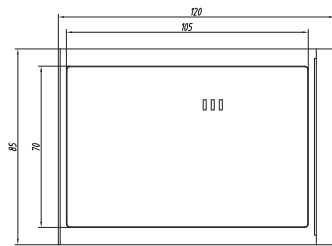
- **EMC** CE, FCC Part 15 Subpart B (Class A)

## Ordering Information

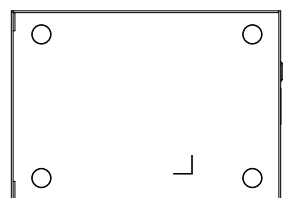
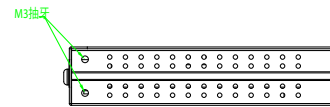
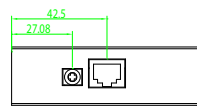
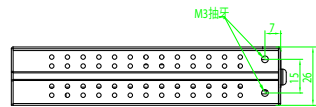
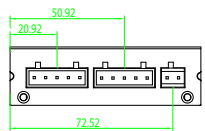
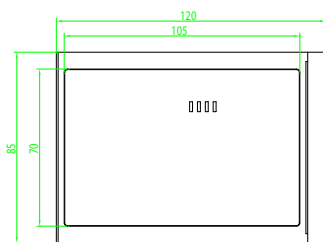
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**Dimensions**  
EKI-1511X

Unit: mm



**EKI-1512X**



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