EKI-1528I/TI
8-port RS-232/422/485 Serial Device Server

EKI-1526I/TI
16-port RS-232/422/485 Serial Device Server

EKI-1528   EKI-1526

Features

- 8 or 16-port RS-232/422/485 serial communication
- Provides 2 x 10/100/1000 Mbps Ethernet ports for LAN redundancy
- Supports up to 976.5 kbps, and any baud rate setting
- Provides COM port redirection (Virtual COM), TCP and UDP operation modes
- Provides rich configuration methods: Windows utility, Telnet console, Web Browser, and serial console
- Built-in 15 KV ESD protection for all serial signals
- SNMP MIB-II for network management
- Built-in buzzer for easy location
- Standard 1U rackmount size
- Rear wiring
- Automatic RS-485 data flow control

Introduction

The EKI-1528 and EKI-1526 are industrial-grade network-based serial device servers for connecting up to 8 or 16 serial RS-232/422/485 devices, such as CNCs, PLCs, scales and scanners, directly to a TCP/IP network. The EKI-1528 and EKI-1526 feature two independent Ethernet ports and MAC addresses to provide a redundant network mechanism to guarantee Ethernet network reliability. The EKI-1528 and EKI-1526 provide a simple and cost-effective way to bring the advantages of remote management and data accessibility to thousand of devices that can't connect to an Ethernet network. The EKI-1528 and EKI-1526 offer multiple ways to configure through Windows utility, Web Browser, serial console or Telnet console, these methods make it easy manage many EKI-1528 and EKI-1526 or serial devices on your network.

Specifications

Ethernet Communications

- **Compatibility** — IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
- **Speed** — 10/100/1000 Mbps, auto MDI/MDIX
- **No. of Ports** — 2
- **Port Connector** — 8-pin RJ45
- **Protection** — Built-in 1.5 KV magnetic isolation

Serial Communications

- **Port Type** — RS-232/422/485, software selectable
- **No. of Ports** — EKI-1528I/EKI-1528TI: 8
  EKI-1526I/EKI-1526TI: 16
- **Port Connector** — DB9 male
- **Data Bits** — 5, 6, 7, 8
- **Stop Bits** — 1, 1.5, 2
- **Parity** — None, Odd, Even, Space, Mark
- **Flow Control** — XON/XOFF, RTS/CTS, DTR/DSR
- **Baud Rate** — 50 bps ~ 976.5 kbps, any baud rate setting
  16 ports up to 230.4 kbps simultaneously
- **Serial Signals** — RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, GND, RI
  RS-422: TxD+, TxD-, RxD+, RxD-, GND
  RS-485: Data+, Data-, GND
- **Protection** — 15 KV ESD for all signals

Software

- **Driver Support** — 32-bit/64-bit Windows 2000/XP/Vista/7/ 8/8.1/10, Windows Server 2003/2008/2012, and Linux
- **Utility Software** — Advantech EKI Device Configuration Utility
- **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
  RFC2217 mode

- **Configuration** — Windows utility, Telnet console, Web Browser, serial console
- **Protocols** — ARP, ICMP, IPv4, TCP, UDP, BOOTP/DHCP Client, Auto IP, Telnet, SNMP, HTTP, DNS, SMTP, NTP
- **Management** — SNMP MIB-II

Mechanics

- **Dimensions (W x H x D)** — 438 x 43.6 x 259.2 mm (17.24" x 1.71" x 10.2")
- **Enclosure** — SECC chassis
- **Mounting** — Rack

General

- **LED Indicators** — System: Power, System Status
  LAN: Speed, Link/Active
  Serial: Tx, Rx
- **Alert Tools** — Built-in buzzer and RTC (real time clock)
- **Reboot Trigger** — Built-in WDT and push button for hardware reboot

Power Requirements

- **Power Input** — EKI-1528I/EKI-1526I: 100 ~ 240 V_{AC} , 47 ~ 63 Hz
  EKI-1528TI/EKI-1526TI: 12 ~ 48 V_{DC}, Terminal Block
- **Power Consumption** — 5.6 W

Environment

- **Operating Temperature** — -40 ~ 75°C (-40 ~ 167°F)
- **Storage Temperature** — -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** — 10 ~ 95% RH

Regulatory Approvals

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

Dimensions

Unit: mm [inch]

EKI-1526I

8.65 [0.34]
12 [0.47]
6.60 [0.26]
259.20 [10.21]
43.60 [1.72]
438 [17.24]

EKI-1526TI

8.65 [0.34]
12 [0.47]
9.6 [0.38]
259.20 [10.21]
43.60 [1.72]
438 [17.24]

EKI-1528I

8.65 [0.34]
12 [0.47]
6.60 [0.26]
259.20 [10.21]
43.60 [1.72]
438 [17.24]

EKI-1528TI

8.65 [0.34]
12 [0.47]
9.6 [0.38]
259.20 [10.21]
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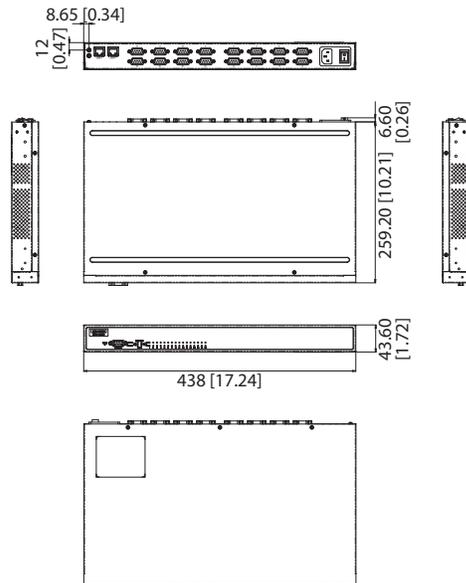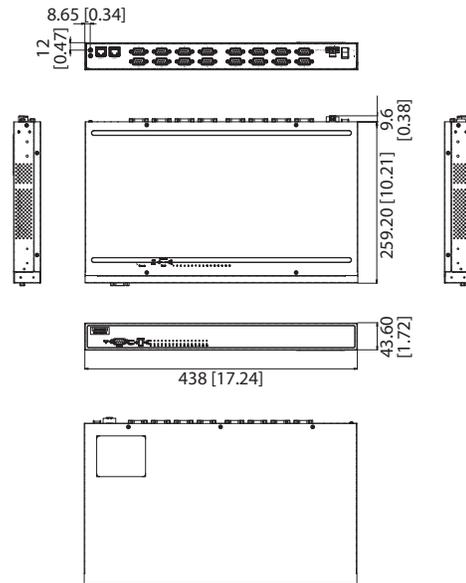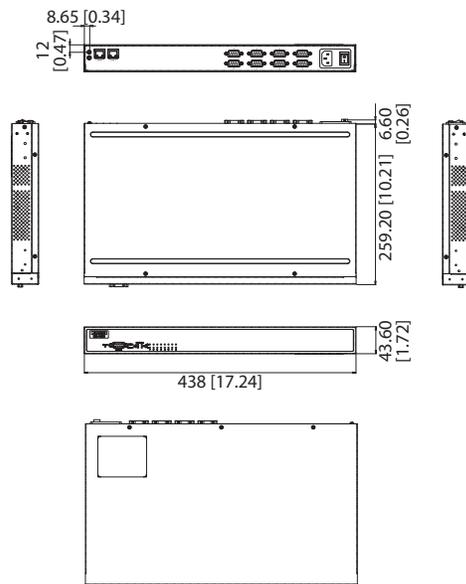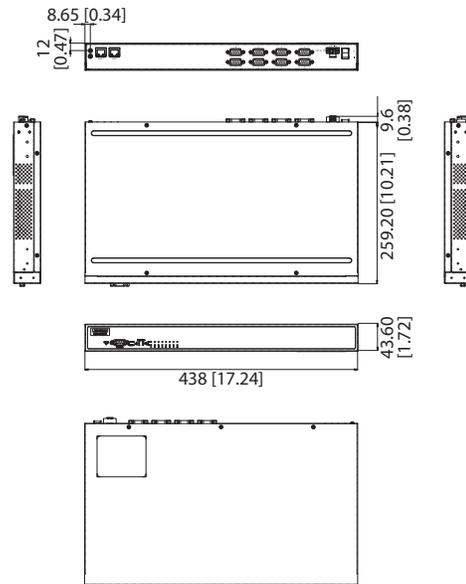
Ordering Information

- **EKI-1528I** — 8-port RS-232/422/485 Serial Device Server
- **EKI-1526I** — 16-port RS-232/422/485 Serial Device Server
- **EKI-1528TI-VDC** — 8-port RS-232/422/485 Serial Device Server w/ DC Input
- **EKI-1526TI-VDC** — 16-port RS-232/422/485 Serial Device Server w/ DC Input