

EKI-1528 V2

EKI-1526 V2

8-port RS-232/422/485 Serial Device Server
16-port RS-232/422/485 Serial Device Server



Features

- Security functions refer to the IEC 62443-4-2 standard
- 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 921.6 kbps, and any baud rate setting
- Provides secure operation in COM port redirection (Virtual COM), TCP, Pair Connection, SSH console modes
- Real-time visibility for device communications and system efficiency
- Built-in buzzer for easy location
- Standard 1U rackmount size
- Automatic RS-485 data flow control
- "I" models support a wide operating temperature

Introduction

The EKI-1528 V2 and EKI-1526 V2 are new-generation industrial-grade secure serial device servers that connect up to 8 or 16 RS-232/422/485 devices—such as PLCs, CNCs, scales, and scanners—to a TCP/IP network. Designed in accordance with the IEC 62443-4-2 standard, they provide secure communication between legacy serial equipment and industrial Ethernet networks. With dual independent Ethernet ports and MAC addresses, they support network redundancy to enhance reliability and ensure continuous operation. These devices offer a 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.

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-232/422/485/485-4w, software selectable
- **No. of Ports** EKI-1528: 8
EKI-1526: 16
- **Port Connector** DB9 male or 8-pin RJ45
- **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 ~ 921.6 kbps, any baud rate setting
- **Serial Signals** RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, GND, RI
RS-422 (RS485-4W): TxD+, TxD-, RxD+, RxD-, GND
RS-485: Data+, Data-, GND

Software

- **Driver Support** Windows 7/8/8.1/10/11, Windows Server 2008/2012/2016/2019, and Linux
- **Utility Software** Advantech EKI Device Configuration Utility
- **Secure Operation Modes** COM port redirection (Virtual COM)
TCP server (polling) mode
TCP client (event handling) mode
Pair Connection (peer to peer) mode
SSH console mode

- **Standard Operation Modes** COM port redirection (Virtual COM)
TCP/UDP server (polling) mode
TCP/UDP client (event handling) mode
Pair Connection (peer to peer) mode
RFC2217 mode
- **Configuration** Windows utility, Web Browser (HTTP/HTTPS), serial console
- **Protocols** ARP, ICMP, IPv6, TCP, UDP, BOOTP/DHCP Client, Auto IP, Telnet, SNMPv3, HTTP, HTTPS, DNS, SMTP, NTP, SSDP
- **Management** SNMP MIB-II
- **Authentication** User Management, LDAP, RADIUS

Mechanics

- **Dimensions (W x H x D)** 438 x 43.6 x 153.9 mm
- **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** AC models: 100 ~ 240 V_{AC}, 50 ~ 60 Hz
DC models: 12 ~ 48 V_{DC}
- **Power Consumption** 6.4 W

Environment

- **Operating Temperature** -40 ~ 70°C (-40 ~ 158°F)
- **Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)

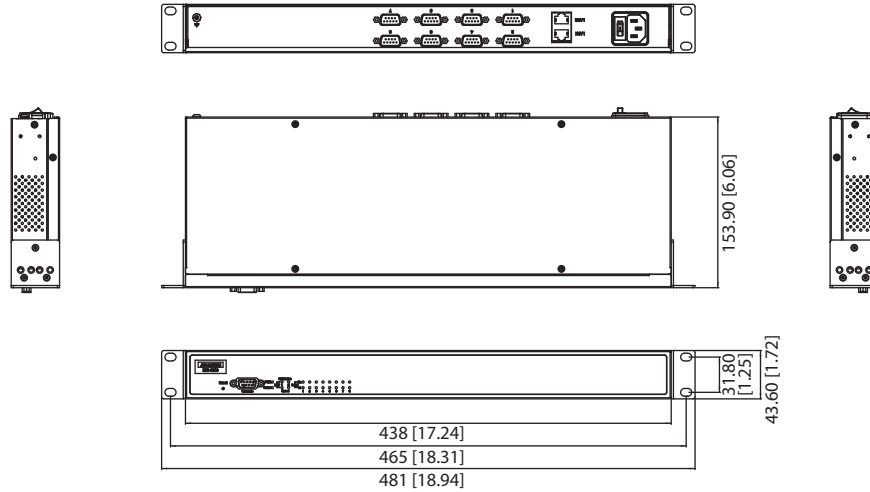
Regulatory Approvals

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

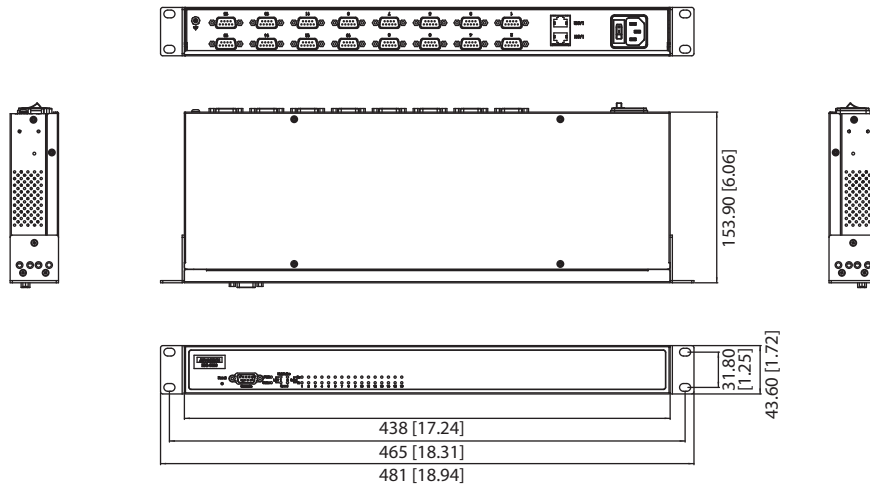
Dimensions

Unit: mm [inch]

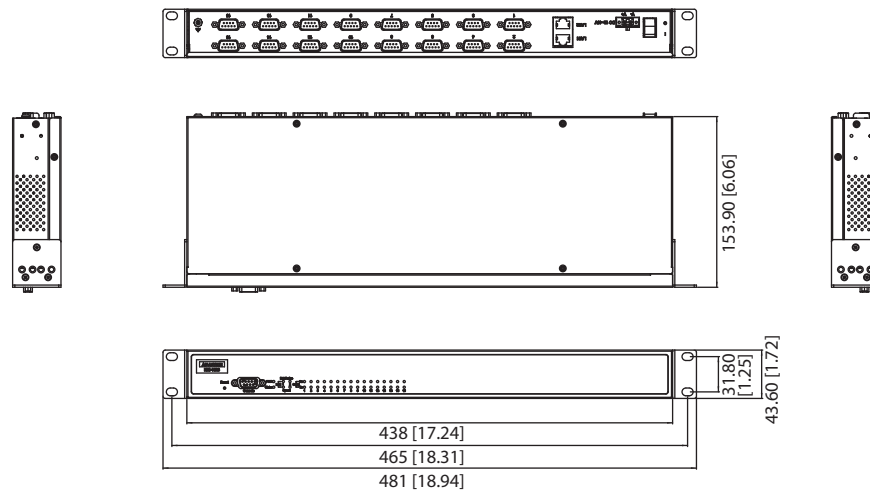
EKI-1528-I1A



EKI-1526-I1A



EKI-1526-I2A

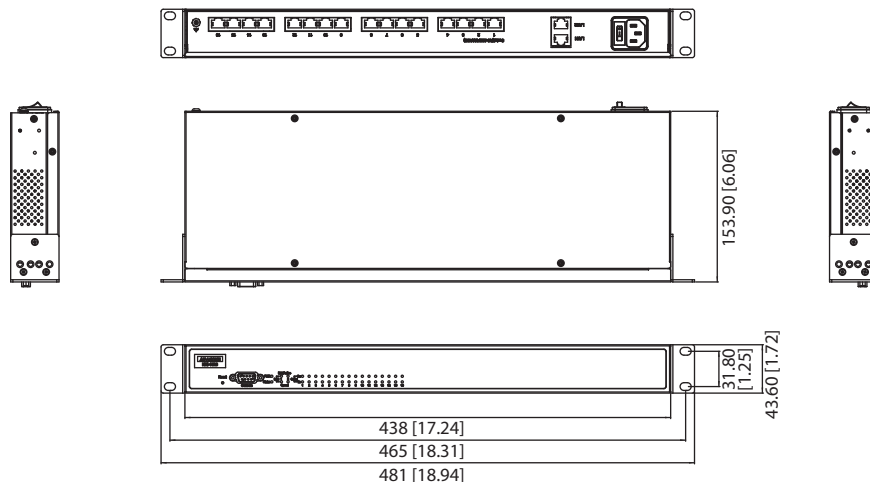


Outline Dimension (W x H x D): 438 x 43.6 x 153.9 mm (17.24" x 1.72" x 6.06")

Dimensions

EKI-1526-NI1A

Unit: mm [inch]



Outline Dimension (W x H x D): 438 x 43.6 x 153.9 mm (17.24" x 1.72" x 6.06")

Ordering Information

| Part Number | Ethernet Interface | No. of Serial Ports | Serial Standards | Serial Isolation | Operating Temperature | Input Voltage |
|---------------|--------------------|---------------------|------------------|------------------|-----------------------|--------------------------|
| EKI-1528-I1A | 2 x RJ45 | 8 x DB9 | RS-232/422/485 | — | -40 to 70°C | 100-240 V _{AC} |
| EKI-1526-I1A | 2 x RJ45 | 16 x DB9 | RS-232/422/485 | — | -40 to 70°C | 100-240 V _{AC} |
| EKI-1526-I2A | 2 x RJ45 | 16 x DB9 | RS-232/422/485 | — | -40 to 70°C | 12 to 48 V _{DC} |
| EKI-1526-NI1A | 2 x RJ45 | 16 x RJ45 | RS-232/422/485 | — | -40 to 70°C | 100-240 V _{AC} |

Accessories (sold separately)

| Cables | |
|---------------|---------------------------|
| OPT1J-AE | 30cm RJ45 to DB9 Cable |
| Connectors | |
| OPT1-DB9-AE | DB9 to Terminal Connector |
| OPT1-DB9-J1-A | DB9 to RJ45 converter |