EKI-1331

1-port RS-232/485 to HSPA+ IP Gateway



Features

- Universal five-band UMTS/HSPA+ 850/900/1800/1900/2100 MHz
- Universal guad-band GSM/GPRS 850/900/1800/1900 MHz
- Connect Ethernet and Serial Devices over VPN
- Protocols converting between serial and Ethernet: Modbus RTU & TCP
- EMC Level III for industrial standards
- Built-in 15 KV ESD protection for all serial signals
- Multiple configuration methods: Serial Console, Telnet, and Web console

Introduction

EKI-1331 cellular gateways can transparently bring RS-232/485 or Ethernet devices to a cellular network. They allow nearly any device with serial or Ethernet ports to connect and share a cellular network with easy and simple configuration. EKI-1331 cellular IP Gateway's are compact, and can be DIN-rail or wall mounted and with front panel LED displays for easy identification. They come with DC power input from 12-24 V_{DC} and have 2 KV EFT/Surge protection to prevent damage from various type of power resources. The serial ports are also protected by 15 KV ESD line protection to keep your system safe from unexpected electrical discharges. From the rugged design to the built in automatic recovery mechanisms, the EKI-1331 can ensure critical applications stay connected. While providing a suite of VPN features, the EKI-1331 guarantees data security.

Specifications

LAN Interface

Ethernet
10/100 Mbps, auto MDI/MDIX

Connector RJ45

• **Protection** 1.5 KV built-in magnetic isolation protection

Cellular Interface

■ **Standards** HSPA+/UMTS/GPRS/GSM

Band Option
Quad-band 850/900 and 1800/1900/2100 MHz

No. of SIM 1SIM Control 3 V

SMA Connector
SMA Female with inner pin

Serial Communications

• **Port Type** RS-232/485

No. of Ports

• Port Connector 5-pin Terminal block

Data Bits 5, 6, 7, 8Stop Bits 1, 1.5, 2

Parity
Baud Rates
None, Odd, Even, Space, Mark
9600 bps to 232.4 kbps

Serial Signals
RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI,

GND

RS-485: Data+, Data-, GND

Protection
15 KV ESD for all signals

General

• **LED Indicators** System: Power, Status, Warn, Error, Modem, Cellular:

SIM, Three Levels of Cellular

Signal Strength

Reboot Trigger
Built-in WDT (watchdog timer)

Software

Operating Modes TCP/UDP server mode, TCP/UDP client mode, IP

Gateway w/ VPN

Configuration Telnet console, Web Browser

 Protocols
ARP, ICMP, IPv4, TCP, UDP, BOOTP, DHCP Client, DHCP Server, Auto IP, SNMP, SNTP, SMTP, Ping,

Trace, DNS Relay, DDNS, Telnet, HTTP, HTTPS

 Network Security
SPI, DDoS protection, Stateless Packet Inspection, Filtering Multicast/Ping package, Access Control List

(ACL), NAT, DMZ, Port mapping, GRE, L2TP,PPTP,

IPSec, OpenVPN

Mechanics

Dimensions (W x H x D) 80 x 45 x 90 mm (3.1" x 1.8" x 3.5")

• **Enclosure** Metal with solid mounting hardware

Mounting DIN-rail, WallWeight 0.34 Kg

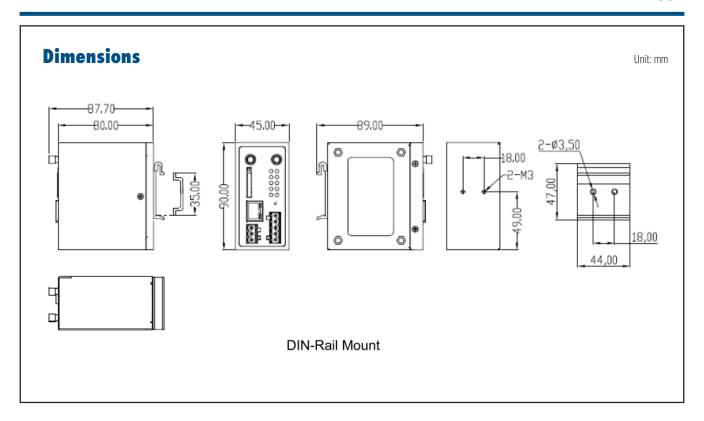
Power Requirements

Power Input
Power Connector
Power Consumption
Power EFT/Surge Prot.
2 KV

Environment

Operating Temperature -20 ~ 70°C (-5 ~ 160°F)
Storage Temperature -40 ~ 85°C (-40 ~ 185°F)

• Operating Humidity 5 ~ 95% RH



Regulatory Approvals

- EMC EN61000-4-2, level 3 EN61000-4-3,level 3

EN61000-4-4, level 3 EN61000-4-5, level 3 EN61000-4-6, level 3 EN61000-4-12, level 3

EN61000-4-11, Voltage Dip: 70%

Shock IEC60068-2-27 Free Fall IEC60068-2-32 Vibration IEC60068-2-6

Ordering Information

■ EKI-1331

1-Port HSPA+ IP Gateway