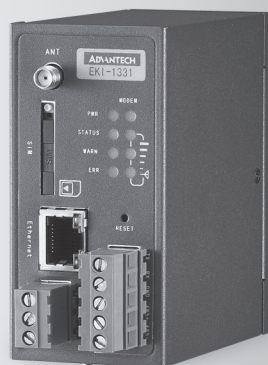# EKI-1331

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

NEW

Features

- Universal five-band UMTS/HSPA+ 850/900/1800/1900/2100 MHz
- Universal quad-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**: 850/900/1800/1900/2100 MHz
- **No. of SIM**: 1
- **SIM Control**: 3 V
- **SMA Connector**: SMA Female with inner pin

Serial Communications

- **Port Type**: RS-232/485
- **No. of Ports**: 1
- **Port Connector**: 5-pin Terminal block
- **Data Bits**: 6, 7, 8
- **Stop Bits**: 1, 2
- **Parity**: None, Odd, Even
- **Baud Rates**: 300/600/1200/2400/4800/9600/19200/38400/57600/115200 bps
- **Serial Signals**: RS-232: Tx, Rx, 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, Wall
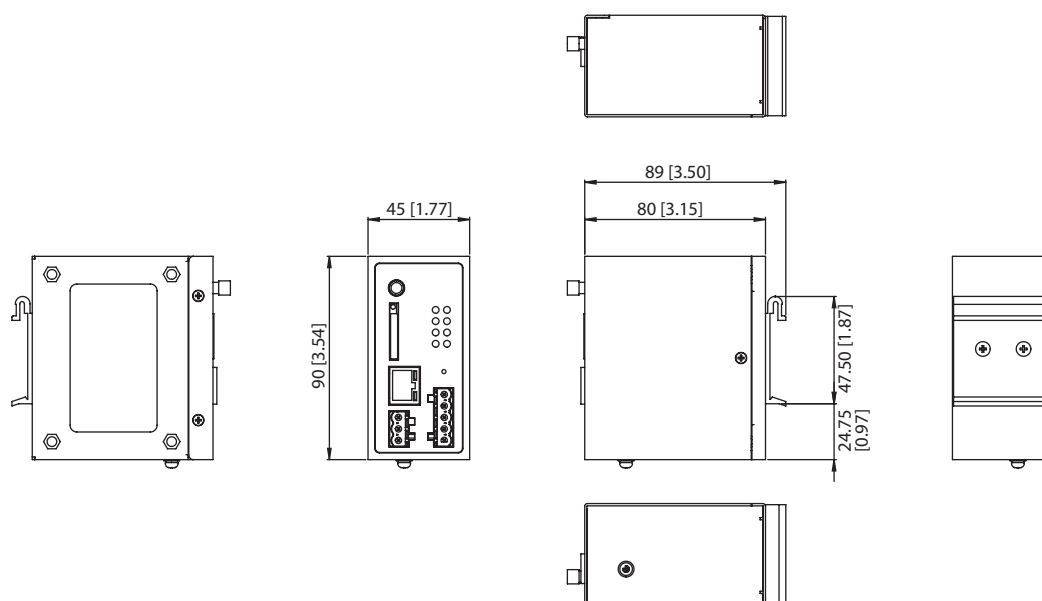- **Weight**: 0.34 Kg

Power Requirements

- **Power Input**: 12 ~ 24 V_{DC}
- **Power Connector**: Terminal block
- **Power Consumption**: 2.16W
- **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

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Dimensions

Unit: mm

89 [3.50]

80 [3.15]

45 [1.77]

90 [3.54]

47.50 [1.87]

24.75 [0.97]

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