# EKI-1321 EKI-1322

# 1-port RS-232/422/485 to GPRS **IP Gateway**

2-port RS-232/422/485 to GPRS **IP Gateway** 



### **Features**

- Universal guad-band GSM/GPRS 850/900/1800/1900 MHz
- Dual SIM for telecom redundancy •
- Support SDHC SD Card for Data Buffering
- Connect Ethernet and Serial Devices over VPN
- Various operation modes: COM port redirector, RVCOM, TCP, UDP, SMS tunnel, and pair connection
- Any baud rate setting for easy configuration
- Built-in 15 KV ESD protection for all serial signals
- 1.5 KV isolation protection (EKI-1321)
- 2 digital inputs (EKI-1321)
- Multiple configuration methods: Windows utility, Telnet, and Web console

### Introduction

EKI-1321 and EKI-1322 cellular gateways can transparently bring RS-232/422/485 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-1321 and EKI-1322 GPRS IP Gateway's are compact, and can be DIN-rail or wall mounted and with both front panel and side panel LED displays for easy identification. They come with dual DC power input from 12 to 48 Voc 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. Both models support dual SIM slots to support GPRS signal redundancy to switch to an available channel automatically while the existing one is disconnected, and SD card slot for data buffering to prevent loss of serial data while the communication is interrupted.

## **Specifications**

### **LAN Interface**

- Ethernet
- Connector Protection

#### **Cellular Interface**

- Standards
- Band Option GPRS Multi-Slot
- **GPRS** Terminal Device
- **GPRS Coding Schemes**
- Tx Power
- No. of SIM SIM Control

### Serial Communications

- Port Type
  No. of Ports
- Port Connector
- Data Bits Stop Bits
- Parity
- Baud Rates Serial Signals
- Protection

### **Relay Output**

- Channel Contact Rating
- Relay off Time(Typ.)
- Relay on Time(Typ.)

### **Digital Input (EKI-1321)**

Channel

10/100 Mbps, auto MDI/MDIX R.145 1.5 KV built-in magnetic isolation protection

GSM/GPRS Quad-band 850/900 and 1800/1900 MHz Class 10 Class B  $CS1 \sim CS4$ 1 W for GSM 1800/1900, 2 W for EGSM 850/900

3 V

### RS-232/422/485, software selectable EKI-1321: 1, 2 KV isolation protection EKI-1322: 2 DB9 male 5, 6, 7, 8 None, Odd, Even, Space, Mark RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND 15 KV ESD for all signals

0.5 A @ 120 V<sub>AC</sub> 0.25 A @ 240 Vac; 2 A @ 30 Vdc

- 4 ms 3 ms
- 2
- Input Level

Logic level 0: 1 V Maximum Logic level 1: 3 ~ 30 V

- General
- LED Indicators
- Reboot Triager

#### Software

- Driver Support
- Utility Software **Operating Modes**
- Configuration Protocols
- Router/Firewall

- Dimensions (W x H x D)
- . Weight

### **Power Requirements**

- Power Input
- Power EFT/Surge Prot.

#### Environment

- **Operating Temperature**
- Storage Temperature Operating Humidity

### **Regulatory Approvals**

- EMC
- RF

CE: EN55022/EN55024 Class A FCC: FCC part 15 subpart B, Class A FCC Part22H/Part24E, EN301 489-1, EN301 489-7, EN301 511

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Ethernet: Speed, Link/Active Built-in WDT (watchdog timer) 32-bit/64-bit Windows XP/Vista/7/8, Windows Server 2003/2008/2008 R2/2012, Windows CE 5.0, and Linux

27 x 120 x 85 mm (1.06" x 4.72" x 3.35")

Metal with solid mounting hardware DIN-rail, Wall

 $12 \sim 48 V_{\text{DC}}$ , redundant dual inputs

EKI-1321: 8W, EKI-1322: 8.5W

-30 ~ 65°C (-22 ~ 149°F) -40 ~ 75°C (-40 ~ 167°F)

0.49 Kg

2 KV

Terminal block

5~95% BH

System: Power, Status GPRS: Quality, ready Serial: Tx, Rx

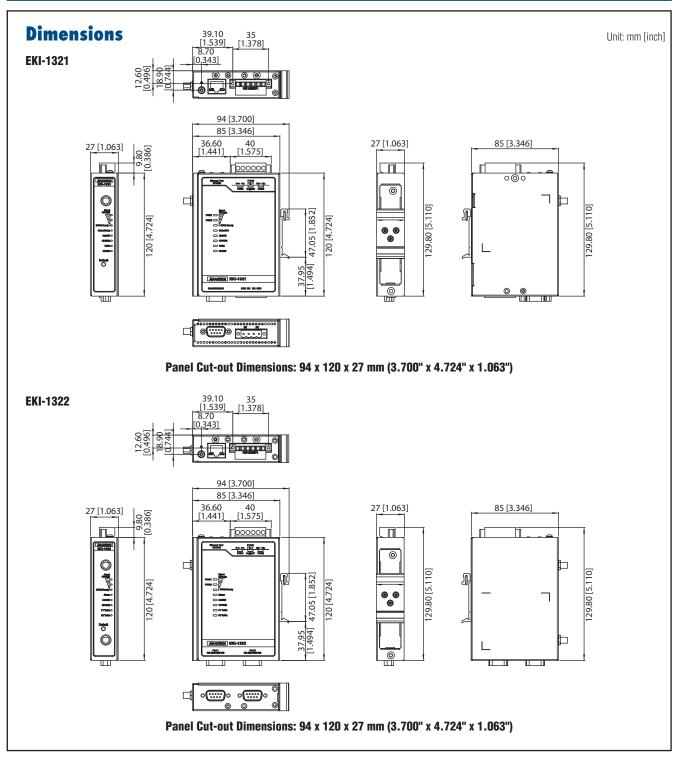
2003/2008/2008 K2/2012, Windows CE 5.0, and Linux Advantech EKI Device Configuration Utility Virtual COM, Reverse Virtual COM, TCP/UDP server mode, TCP/UDP client mode, Pair connection mode (Serial Tunnel), RFC2217, SMS Tunnel, IP Gateway w/ VPN Windows utility, Telnet console, Web Browser ARP, ICMP, IPv4, IPv6, TCP, UDP, BOOTP, DHCP Client, Auto IP, Telnet, DNS, SMMP, HTTP, HTTPS, SMTP, SNTP, SSL NAT, port forwarding. NAT, port forwarding

### **Mechanics**

- Enclosure Mounting

- Power Connector
- Power Consumption

### EKI-1321 EKI-1322



### **Ordering Information**

- EKI-1321 1-port GPRS IP Gateway
- EKI-1322 2-port GPRS IP Gateway
- **OPT1-DB9** D-Sub 9 to Terminal Converter

**Online Download** www.advantech.com/products

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