# 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
- Supports SDHC SD Card for Data Buffering
- Connects 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

System: Power, Status GPRS: Quality, ready

NAT, port forwarding

DIN-rail, Wall

Terminal block

5~95% RH

2 KV

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 Advantech EKI Device Configuration Utility Virtual COM, Reverse Virtual COM, TCP/UDP server mode,

TCP/UDP client mode, Pair connection mode (Serial Tunnel),

Telnet, DNS, SNMP, HTTP, HTTPS, SMTP, SNTP, SSL

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

Metal with solid mounting hardware

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

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

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

RFC2217, SMS Tunnel, IP Gateway w/ VPN Windows utility, Telnet console, Web Browser ARP, ICMP, IPv4, IPv6, TCP, UDP, BOOTP, DHCP Client, Auto IP,

Serial: Tx, Rx

# 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 TypeNo. 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.) 4 ms

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

RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND 15 KV ESD for all signals

0.5 A @ 120 VAC 0.25 A @ 240 VAC; 2 A @ 30 VDC 3 ms

ChannelInput Level

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

#### General

- LED Indicators
- Reboot Trigger

## Software

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

#### **Mechanics**

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

#### **Power Requirements**

- **Power Input** •
- Power Connector

- **Operating 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

AD\ANTECH **Industrial Wireless Solutions** 

1 W for GSM 1800/1900, 2 W for EGSM 850/900

RS-232/422/485, software selectable EKI-1321: 1, 2 KV isolation protection EKI-1322: 2 DB9 male 5, 6, 7, 8 1, 1.5, 2 None, Odd, Even, Space, Mark

75 bps to 921.6 kbps, any baud rate setting RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND

10/100 Mbps, auto MDI/MDIX

1.5 KV built-in magnetic isolation protection

Quad-band 850/900 and 1800/1900 MHz

**RJ45** 

GSM/GPRS

Class 10

CS1 ~ CS4

Class B

2 3 V

- Enclosure
- Mounting

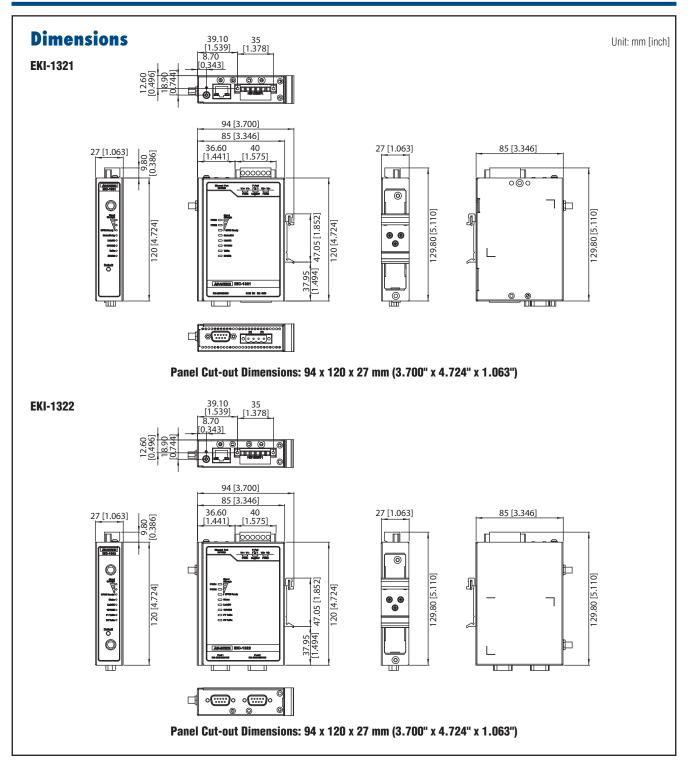
0.49 Kg

Power Consumption

Power EFT/Surge Prot.

### Environment

- Storage Temperature



# **Ordering Information**

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