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
- Supports 32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0, and Linux

System: Power, System Status GPRS: Quality, GPRS ready; Serial: Tx, Rx Built-in WDT (watchdog timer)

32-bit/64-bit Windows 2000/XP/Vista/7

HTTPS, SMTP, SNTP, ARP, SSL

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

Metal with solid mounting hardware

12 ~ 48 V_{DC}, redundant dual inputs

NAT, port forwarding

DIN-rail, Wall

0.49 Ka

Windows Server 2003/2008, Windows CE 5.0, and Linux Advantech Serial Device Server 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 ICMP, TCP/IP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP,

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.) .

Digital Input (EKI-1321)

ChanneiInput Level

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

0.25 A @ 240 VAC; 2 A @ 30 VDC

General

- LED Indicators
- Reboot Trigger

Software

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

- Dimensions (W x H x D) Enclosure
- Mounting

- Power Input

 - Power EFT/Surge Prot.

Environment

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

Regulatory Approvals

- EMC
- FCC: FCC part 15 subpart B, Class A FCC Part22H/Part24E, EN301 489-1, EN301 489-7, EN301

Ordering Information

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

Online Download www.advantech.com/products

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- **Mechanics** Weight
 - **Power Requirements**

 - Power Connector Power Consumption Terminal block EKI-1321: 8W, EKI-1322: 8.5W
 - 2 KV

- Storage Temperature Operating Humidity

5~95% RH

RF

- - EKI-1321

- CE: EN55022/EN55024, Class A

- 1-port GPRS IP Gateway

All product specifications are subject to change without notice

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 RS-422: TxD+, TxD-, RxD+, RxD-, GND

RS-485: Data+, Data-, GND

15 KV ESD for all signals

0.5 A @ 120 VAC

4 ms

3 ms

10/100 Mbps, auto MDI/MDIX

1.5 KV built-in magnetic isolation protection

Quad-band 850/900 and 1800/1900 MHz

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

RJ45

GSM/GPRS

Class 10

CS1 ~ CS4

Class B

2 3 V