

EKI-1321

EKI-1322

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

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

NEW



RoHS COMPLIANT
CE FCC

Features

- Universal quad-band GSM/GPRS 850/900/1800/1900 MHz
- Dual SIM for telecom redundancy
- SD slot with extra SD card for data buffering
- Connect Ethernet and serial devices
- Various Operation modes: COM port redirector, RVCOM, TCP, UDP, SMS tunnel, and pair connection etc
- Any baud rate setting for easy configuration
- 2 digital inputs (EKI-1321)
- Multiple configuration methods: Windows utility, Telnet, and Web console
- Supports Windows 2000/XP/Vista/7, Windows CE and Linux drivers

Introduction

EKI-1321 and EKI-1322 are cellular gateways that 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 V_{DC} and have 2KV EFT/Surge protection to prevent damage from various type of power resources. The serial ports are also protected by 15KV 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** 10/100/1000 Mbps, auto MDI/MDIX
- **Connector** RJ45
- **Protection** 1.5 kV built-in magnetic isolation protection

Cellular Interface

- **Standards** GSM/GPRS
- **Band Option** Quad-band 850/900 and 1800/1900 MHz
- **GPRS Multi-Slot** Class 10
- **GPRS Terminal Device** Class B
- **GPRS Coding Schemes** CS1 to CS4
- **Tx Power** 1W for GSM 1800/1900, 2W for EGSM 850/900
- **Number of SIM** 2
- **SIM Control** 3V

Serial Communications

- **Port Type** RS-232/422/485, software selectable
- **No. of Ports** EKI-1321: 1, isolation
EKI-1322: 2
- **Port Connector** DB9 male
- **Data Bits** 5, 6, 7, 8
- **Stop Bits** 1, 1.5, 2
- **Parity** None, Odd, Even, Space, Mark
- **Baud Rates** 75 bps to 921.6 kbps, any baud rate setting
- **Serial Signals** RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485: Data+, Data-, GND
- **Protection** 15 KV ESD for all signals

Relay Output

- **Channel** 1
- **Contact Rating** 0.5A@120V_{AC}
0.25A@240V_{AC}
2A@30V_{DC}
0.24A@110V_{AC}
- **Relay off Time(Typ.)** 4ms
- **Relay on Time(Typ.)** 3ms

Digital Input(EKI-1321)

- **Channel** 2
- **Input Level** Logic level 0: 1V Max
Logic level 1: 3~30V

General

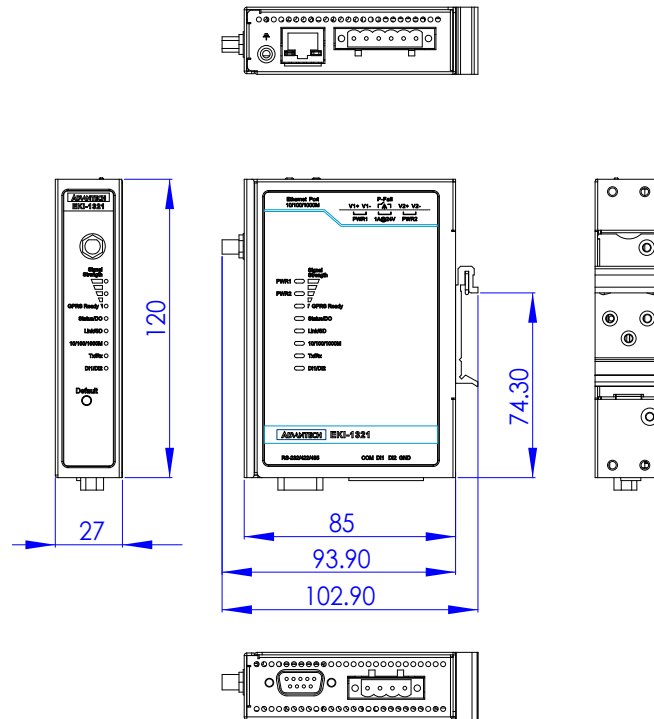
- **LED Indicators** System: Power, System Status
GPRS: Quality, GPRS ready
Serial: Tx, Rx
Built-in WDT (watchdog timer)
- **Reboot Trigger**

Software

- **Driver Support** Windows 2000/XP/2003/Vista/7/Server-2008,
Windows XP/2003/Server-2008/7 x64 Edition, Linux
TTY Driver
- **Utility Software** 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
- **Network Protocols** ICMP, TCP/IP, UDP, DHCP Client, Telnet, DNS, SNMP,
HTTP, HTTPS, SMTP, SNMP, ARP, SSL
- **Router/Firewall** NAT, port forwarding

Dimensions

Unit: mm



Mechanics

- **Dimensions (W x H x D)** 27 x 120 x 85 mm
- **Enclosure** Metal with solid mounting hardware
- **Mounting** DIN-rail, Panel
- **Weight** 490 ± 10g

Power Requirements

- **Power Input** 12 ~ 48 V_{DC}, redundant dual inputs
- **Power Connector** Terminal block
- **Power Consumption** EKI-1321: 6 W, EKI-1322: 6.5 W
- **Power EFT/Surge Prot.** 2KV

Environment

- **Operating Temperature** -30 ~ 65°C (-22 ~ 149°F)
- **Storage Temperature** -40 ~ 75°C (-40 ~ 167°F)
- **Operating Humidity** 5 ~ 95% RH

Regulatory Approvals

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

Ordering Information

- **EKI-1321** 1-port GPRS IP Gateway
- **EKI-1322** 2-port GPRS IP Gateway
- **OPT1-DB9** DB9 to Terminal Connector