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 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 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

Introduction

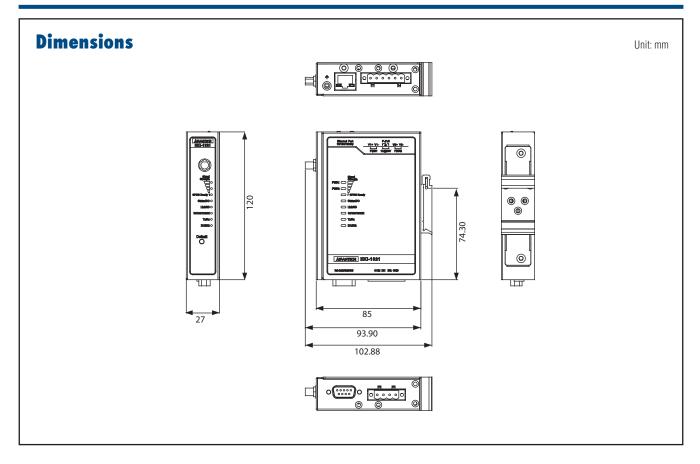
EKI-1321 and EKI-1322 are cellular gateways that can transparently bring RS-232/422/485 or Ethernet devices to a cellular network. They allow nearly any device with serial or Ethernet ports to connect and share a cellular network with easy and simple configuration. EKI-1321 and EKI-1322 GPRS IP Gateway's 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 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 Relay Output Ethernet 10/100 Mbps, auto MDI/MDIX Channel 1 Connector Contact Rating 0.5 A @ 120 VAC **RJ45** 0.25 A @ 240 V_{AC} Protection 1.5 KV built-in magnetic isolation protection 2 A @ 30 VDC **Cellular Interface** Relay off Time(Typ.) 4 ms Relay on Time(Typ.) Standards GSM/GPRS 3 ms Band Option Quad-band 850/900 and 1800/1900 MHz **Digital Input (EKI-1321)** GPRS Multi-Slot Class 10 Channel 2 - GPRS Terminal Device Class B Input Level GPRS Coding Schemes CS1 ~ CS4 Logic level 1: 3 ~ 30 V Tx Power 1 W for GSM 1800/1900, 2 W for EGSM 850/900 No of SIM 2 General SIM Control 3 V LED Indicators Serial Communications Serial: Tx, Rx Port Type RS-232/422/485, software selectable Reboot Trigger No. of Ports EKI-1321: 1. 2 KV isolation protection EKI-1322: 2 **Software** Port Connector DB9 male Driver Support 5, 6, 7, 8 Data Bits Stop Bits 1, 1.5, 2 Linux Parity None, Odd, Even, Space, Mark Utility Software Baud Rates 75 bps to 921.6 kbps, any baud rate setting **Operating Modes** Serial Signals RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND w/ VPN RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND Configuration Protection 15 KV ESD for all signals Protocols . Router/Firewall NAT, port forwarding

- Logic level 0: 1 V Maximum
- System: Power, System Status GPRS: Quality, GPRS ready Built-in WDT (watchdog timer)
- 32-bit/64-bit Windows 2000/XP/Vista/7, Windows Server 2003/2008, Windows CE 5.0, and 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 Windows utility, Telnet console, Web Browser ICMP. TCP/IP, UDP, DHCP Client, Telnet, DNS, SNMP, HTTP, HTTPS, SMTP, SNTP, ARP, SSL

EKI-1321 EKI-1322



Mechanics

- Dimensions (W x H x D) 27 x 120 x 85 mm (1.06" x 4.72" x 3.35")
- Enclosure Metal with solid mounting hardware DIN-rail, Wall
- Mounting
- Weight 0.49 Kg

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. 2 KV

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 • 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

Ordering Information

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