

EKI-1121L

EKI-1122L

1-port Programmable Device Server

2-port Programmable Device Server



Features

- ARM7 32-bit 80MHz processor
- 8MB Flash ROM on board
- 16MB SDRAM
- 2 x 10/100 Mbps Ethernet ports for LAN redundancy
- 1 or 2 software selectable RS-232/422/485 serial ports
- 50 bps to 921.6 kbps baud rate
- Built-in real-time clock (RTC)
- Class I, Division 2 certification
- Pre-installed Linux Kernel 2.4 platform



Introduction

EKI-1121L and EKI-1122L are RISC-based embedded communication controllers which provide dual auto-sensing 10/100 Mbps Ethernet ports for network redundancy and one or two software-selectable RS-232/422/485 serial ports. The EKI-1121L and EKI-1122L use the ARM7 RISC CPU which is a powerful computing engine to fulfill data compression or protocol conversion requirements. The built-in 8 MB flash ROM and 16 MB SDRAM provide user enough storage to run their specific applications.

Specifications

System

- CPU** ARM7 32-bit RISC CPU, 80 MHz
- Flash** 8 MB
- SDRAM** 16 MB
- OS (pre-installed)** uClinux
- Console Port** RS-232, 3-wire (Tx, Rx, GND) pin-header
- Other** RTC, watchdog timer

Ethernet Interface

- LAN** 2 x auto-sensing 10/100 Mbps ports
- Connector** RJ-45
- Protection** 1.5 kV magnetic isolation protection

Serial Interface

- Serial Standards** Software selectable RS-232/422/485 ports
- Connectors** D-sub 9 male
- Protection** 15 kV ESD protection for all signals

Serial Parameters

- Data Bits** 5, 6, 7, 8
- Stop Bits** 1, 1.5, 2
- Parity** None, Even, Odd, Space, Mark
- Flow Control** RTS/CTS, XON/XOFF, automatic RS-485 data flow control
- Baud Rate** 50 bps to 921.6 kbps

Serial Signals

- RS-232** TxD, RxD, DTR, DSR, RTS, CTS, DCD, RI, GND
- RS-422** TxD+, TxD-, RxD+, RxD-, GND
- RS-485** Data+, Data-, GND

LEDs

- System** OS ready, power 1 and power 2 ready
- LAN** Speed (10/100 Mbps), link/active (on connector)
- Serial** TxD, RxD

Mechanics

- Dimensions** 37 x 140 x 95 mm (W x H x D)
- Housing** Metal
- Weight** 600g
- Mounting** DIN-rail, Panel

Power Requirements

- Input Voltage** 12 ~ 48 V_{DC}, redundant dual inputs
- Power Consumption** 2.5 W

Software (uClinux)

- Kernel Version** 2.4.31
- Protocol Stack** TCP, UDP, IPv4, ICMP, ARP, SNMP V1, HTTP, DHCP, NTP, NFS, SMTP, Telnet, FTP, PPP, PPPoE, ROMFS/JFFS2
- File System** busybox, telnet, ftp, sash, tftp
- System Utility** pppd, snmpd, telnetd, inted, ftpd, boa
- Linux Tool Chain** Arm-elf-gcc: C/C++ PC Cross Compiler
- uClibc** POSIX Standard Library

Environmental Limits

- Operating Temperature** -10 ~ 60°C (14 ~ 140°F)
- Storage Temperature** -20 ~ 80°C (-4 ~ 176°F)
- Operating Humidity** 5 ~ 95 % RH

Regulatory Approvals

- EMC** CE, FCC Part 15 Subpart B (Class A)
- Hazardous Location** Class I, Division 2

Ordering Information

- EKI-1121L** 1-port Programmable Device Server
- EKI-1122L** 2-port Programmable Device Server
- OPT1-DB9** D-Sub9 to Terminal Converter