Industrial Embedded Linux Computer   IX200

ARM based Embedded Linux Computer for Industrial Applications

- Free programmable and configurable
  Linux based platform
- ARM9, 16MB Flash, 64 MB RAM
- 10 / 100 Mbit Ethernet Interface
- 3 x RS232 Interfaces, optional 5 x RS232
- USB Host and Device Interfaces
- Standard SD-Card Slot with cover
- Modbus-RTU, Modbus-ASCII, Modbus-TCP,
  BACnet and SNMP support available
- Virtual serial driver, SSH, SQLite
  CGI enabled Webserver
- -40°C .. +85°C option available

The Spider-III IX200 Embedded Linux computer supports 3 (optional 5) RS232 interfaces and a 10/100 Mbit Ethernet interface. Further available are a USB host, a USB device interface and a SD card slot for standard SD cards. The fanless IX200 has a very low power consumption and a robust design for a wide range of industrial applications.

IX200 enables fast integration of industrial devices and systems

IX200 is an ARM based industrial embedded computing platform supporting a powerful Linux system. The serial RS232 interfaces enable the integration of industrial devices like PLC's, inverters in solar energy plants, air conditioning systems, power generators, ventilation systems, sensors, weighing machines and many other industrial devices into a network infrastructure. Integration into a Modbus, BACnet or SNMP environment is supported by appropriate software libraries and packages. A virtual serial driver is also available. It enables direct control of RS232 devices over the network / Internet with the standard Windows application program via a virtual serial COM port. An exchangeable SD card offers up to several Gigabytes of nonvolatile mass storage space for universal usage. It can be used for databases, for data logging or even for larger programs or libraries. All common file formats like FAT, FAT32, ext2, ext3, among others, are supported.

Flexible programmable platform

C/C++ programming is supported by a standard GCC toolchain with Glibc library. Script programs are supported as well as a Java runtime machine and other programming languages. Application programs benefit from the ready-to-run extensive protocols, servers and clients available for immediate use. A CGI enabled webserver supports webbased applications, data transfer can comfortably be done by ftp transfer and data management is enabled by the SQL database system SQLite.

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Embedded Industrial Linux Computer with RS232 and Ethernet

Overview

- Powerful Linux based system with GCC and Glibc support
- ARM9, 16MB onboard flash, 64MB RAM
- 3 (max. 5) RS232 interfaces
- 10/100 Base-T Ethernet interface
- Fanless, very low power consumption
- Java JVM available
- Modbus, BACnet and SNMP available
- Virtual serial driver available
- CGI enabled Webserver included
- Rich set of protocols and services ready to run

Interfaces

- 10/100 Mbit Ethernet interface with standard RJ45 jack
- 3 x RS232 interfaces one with full control line set
- Optional 5 x RS232 interfaces
- USB host full speed
- USB device full speed

System

- ARM9 / 200MIPS
- 16 MB onboard flash memory
- 64 MB RAM memory

SD card

- SD card slot with cover
- All common file systems supported like fat, fat32, ext2, ext3

Power Supply

- DC input 10-40V
- Industrial proof connector with locking

LED indicators

- Power-on LED
- Three user programmable LED's

Case

- Stable aluminium case
- Dimensions: 102 x 95 x 38 mm
- DIN rail mounting option available

Environment

- Temperature
  Storage: -40°C..+85°C
  Operational: +5°C..+70°C
  Optional: -40°C..+85°C operational
- Humidity
  8-90% relative humidity, not condensing

Protocols and Services

- Linux supports all common industry standard protocols and client / server systems such as:
  TCP/IP, UDP, Telnet, SSH, VPN, HTTP, FTP, TFTP, SNMP, ICMP, ARP, DHCP, PPPD, PAP, CHAP, NTP, POP3, SMTP

Integrated Webserver

- A compact CGI capable webserver with a preinstalled demo webpage is preinstalled

Communication and database system options

- Modbus-RTU, Modbus-ASCII and Modbus-TCP
- BACnet
- SNMP
- Driver for transparent RS232 data transfer over Ethernet
  Driver for standard PC implementing a virtual COM port
- SSH, VPN, SQLite database system

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