

VXC-114H

PCI bus, Intelligent 4-port RS-232 Communication Board



COM-Selector

MiniOS7 Inside

Programmable

Short Card

VXC-114H

Functional Description

The VXC-114H intelligent communication board provides 4 independent and full-duplex RS-232 serial ports. It features a 16-bit 80186-80 CPU, 1KB Dual-port RAM, 512KB Flash, 512KB SRAM, MiniOS7 operating system and built-in communication firmware. Those features effectively reduce the CPU loading of PC when communicating in high speed.

Based on our SDK, the user can develop his own firmware for the VXC-114H to create special functions such as data filter, logger, compression, re-director, 1-to-M broadcaster, encryption/decryption, and protocol converter, etc.

In addition, the user can select a specified COM port number manually by setting dip switches, or let the driver to choose an available number automatically. The driver provides an up to 128KB software FIFO for each COM port under Windows. It's practical for large file transmission.

Specifications

- PCI bus (V2.1), 5V, 33MHz, 32-bit, Plug and Play mechanism
- Interface: 4 ports RS-232 with TXD, RXD, RTS, CTS, DSR, DTR, DCD, RI, and GND pins
- Connector: 10-pin female RJ-45 jack
- UART: 16C550 compatible
 - Speed: 110 ~ 115200 bps
 - Data bit: 5, 6, 7, 8
 - Parity: None, Odd, Even, Mark, Space
 - Stop bit: 1, 1.5, 2
 - FIFO: Internal 64 bytes

General Specifications

- Operating temperature: 0 ~ 60°C
- Operating humidity: 10 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Storage humidity: 5 ~ 95% non-condensing
- Power consumption: 1W
- Dimensions: 130 mm x 105 mm

Advantages

- Built-in COM-Selector
- MiniOS7 Inside (DOS like OS)
- Programmable firmware with SDK
- Up to 100KB software FIFO for each COM port under MiniOS7
- Up to 128KB software FIFO for each COM port under Windows
- Short Card Design
- Built-in Watchdog protection

Features

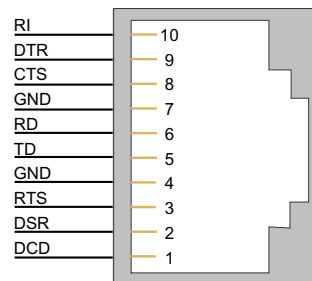
- PCI Bus, Plug & Play
- RS-232 firmware inside
- Microprocessor: 16-bit 80186, 80Mhz.
- On board memory: 512KB SRAM, 512KB Flash
- PCI interface with high speed 1KB DPRAM memory mapping
- 4 full-duplex RS-232 ports
- EEPROM: 2K bytes
- UART FIFO: 64 bytes

Software

- Firmware SDK for MiniOS7 (DOS like)
- COM port driver for Windows NT 4.0
- COM port driver for Windows 2000/XP/Net
- tty device driver for Linux

Pin Assignment

RJ-45 Port1~4



Ordering Information

Standard

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Optional

CA-RJ0903: 9-pin Male D-sub & RJ-45, 30cm
CA-RJ1003: 10-pin & RJ-45, 30cm Cable