

JetCard 1404 / 1404i

4-port RS-422 / 485 Universal PCI Card



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- Supports 32-bit Universal PCI bus
- Easy-to-install driver and self-diagnostic utility
- High speed up to 921.6 Kbps
- Built-in 15KV ESD protection
- Automatic Flow Direction Switching Technology
- Supports 128-byte FIFO
- Supports on-board automatic hardware/software flow control
- Supports over current/voltage protection
- Provides 2KV optical isolation (JetCard 1404i only)

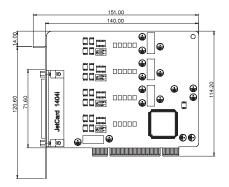
High Performance

JetCard Series use Oxford OXmPCl954 chip, a 4-port Universal Asynchronous Receiver Transmitter, which is well-known for its high performance. Each UART channel in the JetCard offers data transmission speed up to 921.6 Kbps, and bi-directional 128-byte FIFO for each port. Deep FIFO can reduce the CPU's loading, saving CPU's resources for other important tasks. This chip also allows JetCard to be compatible with the widely-used industry-standard 16C950 devices and PCI bus.

In addition to high speed of 921.6 Kbps and 128-byte FIFO, Oxford chip also equips JetCard with onboard flow control function. Instead of using a driver on the PC to control the traffic flow, JetCard uses the on-board flow control function to reacts directly without waiting for the PC to respond. In this way, the respond time and CPU's loading can be largely reduced, greatly enhancing your system's performance. You can either choose software flow



control, which uses Tx and Rx to send/ receive XON/XOFF signals, or select hardware flow control, which uses CTS#/RTS# to send/ receive the signals. The flow control function is to prevent FIFO from overflow. JetCard is ideally suitable for PC applications, enabling PC users to take advantage of the maximum performance of analog modem or ISDN terminal adapters. JetCard is also suitable for any communications that require high speed RS-232/ RS-422/RS-485 interfaces. JetCard 1404 also comes with on-board Automatic Flow Direction Switching Technology. Under a multi-drop 2-wire RS-485 mode, the timing for switching between Idle Mode (data not being transmitted) and Active mode (data being transmitted) must be precise and accurate. With this technology, JetCard can effectively increase RS-485 transmission performance, and largely relieve the PC from the burden of using the driver to switch modes.



Specification

Interface
Bus Interface: 32-bit Universal PCI

Number of Ports: 4 Max. Number of Boards: 4 IRQ: Assigned by PCI plug and play

Data Bits: 5, 6, 7, 8 Stop Bits: 1, 1.5, 2

Parity Bits: None, Even, Odd, Space, Mark

RS-422 Signals:

Tx+, Tx-, Rx+, Rx-, RTS+, RTS-, CTS+, CTS-, GND RS-485 (4-wire) Signals: Tx+, Tx-, Rx+, Rx-, GND RS-485 (2-wire) Signals: Data+, Data-, GND RS-485 Data Control: On-chip Automatic Data Flow

Direction Switching Technology (2-wire) Isolation Protection: 2 KV Optical Isolation

(JetCard 1404i only)

Hardware Communication Controller: 16C950 compatible

(OXFORD)

Board Connector: DB37 Female

Cable Connection: DB9 Male or DB25 Male.

60 cm cable length (optional)

Cable Model: CM37M9x4-60 or CM37M25x4-60 (optional)

Performance FIFO Size: 128 Bytes

Speed: 50 bps to 921.6 Kbps

Surge Protection: Embedded 15KV ESD Surge Protection

Terminator: Built-in termination resistor

Power Requirements

Power Consumption(JetCard 1404): 1.06A (+5 V) Power Consumption(JetCard 1404i): 1.02mA (+5 V)

Mechanical Dimensions: 138 x 80 mm

Environmental

Operating Temperature: -10 ~ 70°C (14° ~ 158°F) Operating Humidity: 5% ~ 95% (Non-condensing) Storage Temperature: -20 ~ 85°C (-4° ~ 185°F) OS Supported: Windows 98/Me/NT/2000/XP/2003,

Linux RedHat Enterprise 4.0 (2.6.9)/RedHat Enterprise 3.0 (2.4.21)/RedHat 9.0 (2.4.20)/RedHat 8.0 (2.4.18)/RedHat 7.3 (2.4.18)/RedHat 7.2 (2.4.7)/FC5(2.6.16)/FC3(2.6.9)/ FC2(2.6.5)/FC1(2.4.22)/Mandrake 10.1(2.6.8)/Mandrake 9.2

RS-485 4Wires

RxD+(B)

TxD+(B)

GND

TxD-(A)

Pin No. Signal

RS-485 2Wires

Pin No. Signal

Data+(B)

GND

Data-(A)

20

Regulatory Approvals

RS-422/485 DB25 Male

RS-422

RxD+(B)

TxD+(B)

RTS+(B)

CTS+(B)

RTS-(A)

GND

TxD-(A)

CTS-(A)

20 RxD-(A)

Pin No. Signal

EMI: FCC, CE

Warranty: 5 years

Managed Switch Gigabit Switch

IP67/68

Switch

Networking

Serial Device

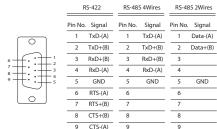
Media

Multiport

Din Rail Power Supply

Pin Assignments

RS-422/485 DB9 Male



Ordering Information

JetCard 1404 4-port RS-422/485 Universal PCI Card

Includes:

4-port RS-422/485 Card

Quick Installation Guide

Documentation and Software CD-ROM

JetCard 1404i 4-port RS-422/485 Isolated **Universal PCI Card**

Includes:

4-port RS-422/485 Card

Quick Installation Guide

Documentation and Software CD-ROM

Optional Accessories

20 RxD-(A)

CM37M9x4-60

4-port male DB37 to male DB9 connection cable, 60cm

4-port male DB37 to male DB25 connection cable, 60cm





CM37M9x4-60

CM37M25x4-60

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