

JetCard 1608

4-ports RS-232/422/485 & 4-ports RS232 PCI-104 Card



CE FC RoHS

PCI-104 4 RS 232/422/485 4 RS 232

921.6Kbps -25~70°C

- Supports 32 bit PCI-104 bus
- One DB37 connectors to support 4 RS-232/422/485 ports
- One box header to support 4 RS-232 ports
- Up to 921.6Kbps high speed data transmission
- Supports on-board automatic software flow control
- Supports Windows Vista/2000/2003/XP
- -25~70°C operating temperature for hazardous environment application



Embedded Switch Card

The JetCard 1608 is a high performance octal asynchronous serial port card in PCI-104 format and is designed for both RS232 and high RS422/485 that is used in long distance industrial applications. JetCard 1608 PCI-104 bus support both +3.3V and +5V slot. The easy-to-install driver that come with JetCard make it easier for you to set up your complex

system. With the -25~70°C wide operating temperature range, the card becomes an ideal embedded networking solution for industrial applications in severe environments and is your best choice for applications in building automation, security, retail POS systems, billboard broadcasting, and telecom management.

PCI-104

The PCI-104 form factor supports the PCI bus. The maximum configuration for the PCI bus of PCI-104

modules is four plus the Host Board.

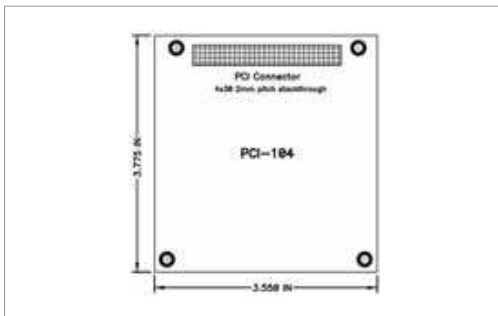
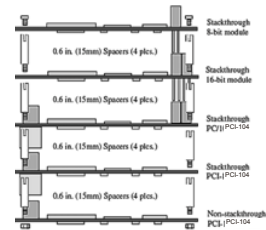


Figure 1: A Possible Module Stack Configuratin



High Performance

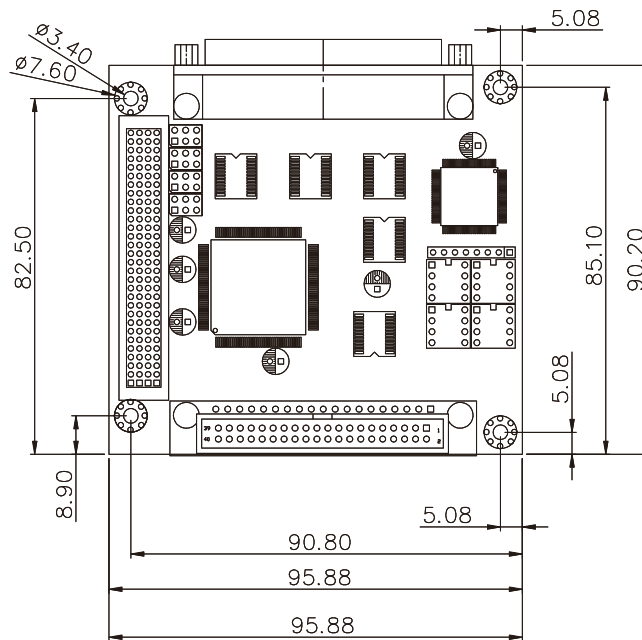
The JetCard 1608 uses one Oxford OXmPCI954 chip and one 16C954 chip to provide 8 serial ports. Each UART channel in the JetCard offers data transmission speed up to 921.6 Kbps, and bi-directional 128-byte FIFO for each port. Deep FIFO can reduce the CPU's loading, saving CPU's resources for other important tasks. This chip allows JetCard to be compatible with the widely-used industry-standard 16C950 devices and PCI-104 bus.

In addition to high speed of 921.6 Kbps and 128-byte FIFO, Oxford chip also equips JetCard with on-chip flow control function. Instead of using a driver on the PC to control the traffic flow, JetCard uses the on-chip flow

control function to react directly without waiting for the PC to respond. In this way, the respond time and the loading of the CPU can be largely reduced and your system performance can be greatly enhanced.

JetCard also comes with on-chip 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.

Dimensions (Unit = mm)



- Industrial Intelligent NMS
- Rackmount PoE Plus Switch
- Industrial PoE Plus Switch
- Industrial 12-24V PoE Switch
- Industrial PoE Switch
- Rackmount L3/L2 Switch
- Gigabit Managed Switch
- Managed Ethernet Switch
- Entry-level Switch
- Wireless Outdoor AP
- Embedded PoE/Router Computer (LINUX)
- Industrial Communication Computer (WIN/LINUX)
- Ethernet/PoE/Serial Board**
- Ethernet I/O Server
- Media Converter
- Serial Device Server
- SFP Module
- Din Rail Power Supply

Specifications

Interface

Bus interface: 32-bit PCI-104 plus bus

Number of ports:

RS232/422/485 x4 (DB37)

RS232 x4 (box header)

Maximum boards: 4

IRQ: assigned by PCI-104 plus plug and play

Data bits: 5, 6, 7, 8

Stop bits: 1, 1.5, 2

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

Flow control: Xon/Xoff, RTS/CTS, DTR/DSR

Automatic flow direction switching in 2-wire RS-485

OS supported:

Windows Vista/NT/2000/2003/XP

Hardware

Communication controller:

16C950 compatible (OXFORD)

Board connector:

DB37 x1

Box header x1

Cable connection: DB9 male or DB25 male, 60cm cable length (optional accessory)

Dimension: 96 x 90 mm

Net weight: 200g

Performance

FIFO size: 128 bytes

Speed: 50~921.6 Kbps

Terminator: built-in termination resistor

Power requirement

Power consumption: 0.03A (+3.3V and 5V)

Environment

Operating Temp:

-25 ~ 70°C (-13 ~ 158°F), 5 ~ 95% RH

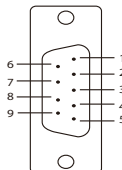
Storage Temp: -40 ~ 80°C (-40 ~ 176°F), 5 ~ 95% RH

Regulation: CE, FCC

Warranty: 5 years

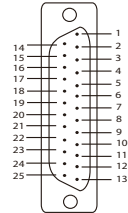
Pin Assignments

RS232/422/485 DB9 Male



DB-9 Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
1	DCD	TxD-(A)	TxD-(A)	Data-(A)
2	RxD	TxD+(B)	TxD+(B)	Data+(B)
3	TxD	RxD+(B)	RxD+(B)	
4	DTR	RxD-(A)	RxD-(A)	
5	GND	GND	GND	GND
6	DSR			
7	RTS			
8	CTS			
9				

RS232/422/485 DB25 Male



DB-25 Pin	RS-232	RS-422	RS-485 (4-wire)	RS-485 (2-wire)
2	TxD	RxD+(B)	RxD+(B)	
3	RxD	TxD+(B)	TxD+(B)	Data+(B)
4	RTS	RTS+(B)		
5	CTS	CTS+(B)		
6	DSR	RTS-(A)		
7	GND	GND	GND	GND
8	DCD		TxD-(A)	Data-(A)
20	DTR		RxD-(A)	
22				

Ordering Information

JetCard 1608 4-ports RS-232/422/485 and 4-ports

RS-232 PCI-104 Card

Includes:

- JetCard 1608
- Quick installation guide
- Documentation and software CD-ROM
- Screw Pack

Optional Accessories

CM37M9x4-60

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

CM37M25x4-60

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



CM37M9x4-60



CM37M25x4-60