MSB-118

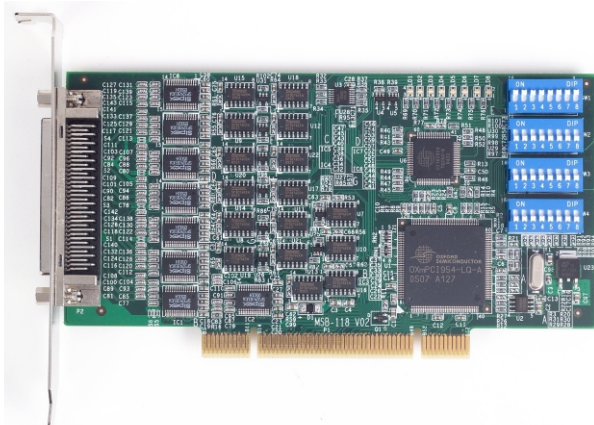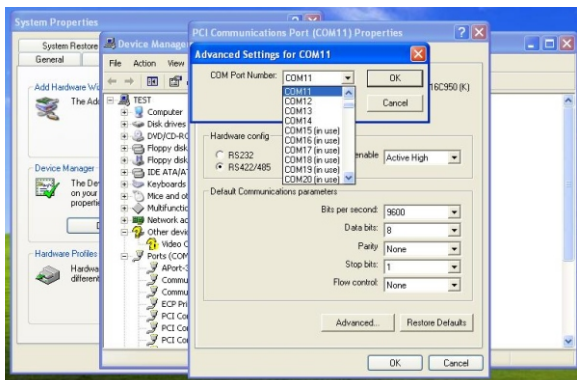## 8-Port RS-232/422/485 UPCI Board

Introduction

The MSB-118 is a high performance 8-port RS-232/422/485 universal serial board. Each port of the MSB-118 can be independently configured as RS-232, RS-422 or RS-485 serial Interface by adjusting the on-board DIP switch. A high-performance 16C950 compatible UART chip with 128-byte FIFO Is used for MSB-118 to improve the transmission throughput and reduce the host computer's CPU loading.

The MSB-118 is an universal PCI board which means the board can be plugged into PCs with 5V 32-bit PCI slots or PCs with 3.3V 32-bit PCI slots.

Easy-to-ues Port Mapping Utility

Ordering Information

❑ MSB-118
8-Port RS-232/422/485 UPCI Board
with one 1-to-8 connection cable, 100cm

Accessories

❑ CBL-M68M9x8-100
1-to-8 connection cable, 100cm
(SCSI-3 male for the host side
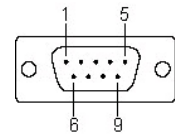DB9 for the device side)

Features

- Each port can be independently configured as RS-232, RS-422 or RS-485 serial Interface
- High performance 16C950 compatible UART with 128-byte FIFO, over 700Kbps data throughput for each port running concurrently
- Hardware auto-direction control for RS-485
- Baud rate from 50bps to 921.6Kbps
- On-board bi-color LEDs as status indicators
- Universal PCI compatible, can be plugged into either 3.3V or 5V 32-bit PCI slots
- Windows 2003/XP/2000/NT/98/95/ME and Linux

Specifications

- **Hardware**
  Bus: support bith 5V and 3.3V 32-bit PCI
  I/O address: assigned by BIOS
  IRQ : assigned by BIOS, one IRQ for all serial ports
  No. of Boards: 4 max. (share the same IRQ)
  Host connector : 68pin SCSI-3 connector, female
- **Serial Port Signals**
  UART: Oxford 16mPCI954 & 16C954
  Connector: DB9, male
  Protection: 15KV ESD for all signals

PIN	RS-232	RS-422	RS-485
1	DCD	TxD-	---
2	RxD	TxD+	---
3	TxD	RxD+	Data+
4	DTR	RxD-	Data -
5	GND	GND	GND
6	DSR	RTS-	---
7	RTS	RTS+	---
8	CTS	CTS+	---
9	RI	CTS-	---

- **Serial Port Parameters**
  Baud Rate: 50bps to 921.6 Kbps
  Parity: None, Even, Odd, Mark, Space
  Data Bits: 5,6,7,8 bits
  Stop Bit: 1, 1.5, 2 bits
  Flow Control: RTS/CTS, XON/XOFF, None
- **Drivers**
  Windows: 2003/XP/2000/NT/98/95/ME
  Linux: 2.4.12 and above
- **Power consumption:** 300mA@5VDC
- **Dimension:** 75 x 158 mm (29.5 x 62.2 inches)
- **Operation Temperature/Humidity**
  0 to 55°C(32 to 131°F),5 to 95% RH
- **Regulation**
  CE Class A, FCC Class A