Multiport Serial Board Solutions

C168H Series

8-Port RS-232 PCI/ISA Boards

Features

- 8-port RS-232 High Speed Communication Board
- Compact PCI/ISA board size
- Versatile OS driver support
- Various connection options
- Data transmission speed up to 921.6 Kbps
- On-chip hardware flow control
- Easy configuration without switches or jumpers
- Convenient connection cables

CE FC

C168H/PCI

C168H

Overview

The Smartio C168H Series allows you to install additional RS-232 serial communication ports on your PC by providing 8 serial ports per board for connecting all types of serial device, including terminals, modems, printers, data acquisition equipment, and more. And C168H's versatile OS driver support truly fulfills the needs of our customers' varied applications. This product is available for use on either a PCI or ISA bus, with both types offering a reliable and high performance solution for serial multiport communications.

Supported OS Drivers

MOXA's COM port driver not only supports all major Operating Systems, but also the following dedicated OSs for customers' special needs.

DOS	**UnixWare SVR4.2**
AT&T UNIX SVR4.2	**UnixWare 7**
MITUX SVR4.2	**SCO OpenServer**

SCO UNIX
SCO XENIX (C168H)
QNX 4.2x (C168H)
FreeBSD (C168H)
Linux

Specifications

Hardware

I/O controller: 16C550C or compatible x 8

Interface

Bus: PCI ver. 2.1 (32-bit) or ISA (16-bit)

Performance

Speed: 50 bps to 921.6 Kbps

Max. No. of ports: 32 (4 boards)

Configuration

Parity: None, Even, Odd, Space, Mark

Data bits: 5, 6, 7, 8

Stop bits: 1, 1.5, 2

IRQ: ISA: 2, 3, 4, 5, 7, 10 (Default), 11, 12, 15
       PCI: Assigned by BIOS

I/O address: ISA: 0x0000 - 0xFFFF (Default: 0x180)

PCI: Assigned by BIOS

OS Supported

Windows 95/98/ME/NT/2000/XP/2003, Linux
(For more details, refer to the OS support section.)

Power and Environment

Power Requirements:

C168H/PCI: 260 mA (+5V), 100 mA (+12V), 60 mA (-12V)

C168H: 170 mA (+5V), 100 mA (+12V), 60 mA (-12V)

Operating Temperature: 0 to 55℃

Regulatory Approvals: FCC, CE

Operating Humidity: 5 to 95% RH

Storage Temperature: -20 to 85℃

Dimensions: **C168H/PCI:** 123 x 100 mm (W x D)
              C168H/C168HS: 157 x 93 mm (W x D)

Connection Options for C168H Series

### Box Connection
Opt 8A (DB25 Female)
Opt 8B (DB25 Male)
Opt 8S (DB25 Female with Surge)
*TxD, RxD LED Indicators
*150 cm Connection Cable included

Cable Connection
Opt 8C (DB25 Male)
Opt 8D (DB9 Male)
*100 cm cable length
*Reversible Connector Header

Pin Assignment

DB25 Female (Opt8A/S)


```
25
DSR(in) 20      8 DCD
                7 GND
                6 DTR
                5 RTS
                4 CTS
                3 TxD
14              2 RxD
```

DB25 Male (Opt8B/C)


```
25              2 TxD
                3 RxD
                4 RTS
                5 CTS
                6 DSR
DTR 20          7 GND
                8 DCD
14
```
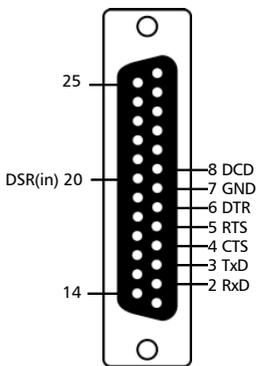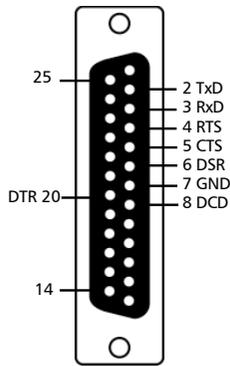
Bi-Directional Reversible Connector
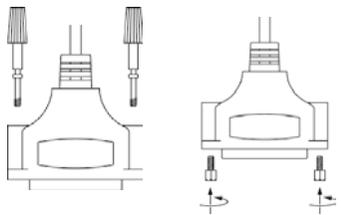
* Connect to Female Connector   * Connect to Male Connector

DB9 Male (Opt8D)


```
DSR 6           1 DCD
RTS 7           2 RxD
CTS 8           3 TxD
                4 DTR
                5 GND
```
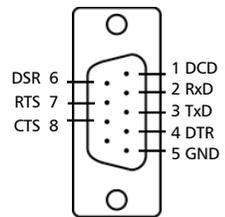
Ordering Information

C168H/PCI: PCI bus, 8-port serial board
C168H: ISA bus, 8-port serial board
C168HS: ISA bus, 8-port serial board w/Surge Protection
All items include: MOXA Software CD-ROM, User's Manual

* Connecion cable or box is an optional accessory
* For an onboard PCI Surge Protection Solution, refer to the Universal PCI section
* For more connection box options, refer to pages 7-2, 7-3

Optional Connectors (choose one per board)
Opt8A: 8-port DB25 female connection box (connection cable included)
Opt8B: 8-port DB25 male connection box (connection cable included)
Opt8C: 8-port DB25 male connection cable
Opt8D: 8-port DB9 male connection cable
Opt8S: 8-port DB25 female connection box with surge protection