

Smartio C168H Series



Easy-to-Use 8 Port Serial Board



Overview

The Smartio C168H series is designed for people looking for an easy-to-use eight port serial board. Just plug the C168H series board into a PCI or ISA slot, and all configuration tasks will be done automatically, eliminating the need to adjust I/O addresses and IRQ hardware switches and jumpers.

In addition, users can configure each port of the C168H board to any IRQ, and any address, eliminating the problem of resource conflicts. To improve reliability, surge protection and optical isolation are available as options.

Features

- Low repair rate with ASIC design
- Delivers fastest data transmission available, with speeds up to 921.6 Kbps
- On-chip hardware flow control
- No switches or jumpers—easy to configure by software
- PCI or ISA bus available
- Available with optical isolation and surge protection as options
- Works perfectly with all major Operating Systems

Benefits

- Easy to install
- Compact board size—ideal for PC-based embedded systems
- Low cost

Applications

- PC-based point of sale register
- PC-based postal machine
- PC-based kiosk
- PC-based lottery machine
- Other serial device control

| Ports Interface | 1 | 2 | 4 | 8 | 16 | 32 |
|--------------------|---|---|---|---|----|----|
| RS-232 | | | | ✓ | | |
| RS-422 | | | | ✓ | | |
| RS-485 | | | | ✓ | | |

Specifications

Hardware

I/O controller 16C550C or compatible x 8

Interface

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

Serial RS-232, RS-422/485

No. of ports 8

Performance

Speed 50 – 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 PCI: Assigned by BIOS
ISA: 2,3,4,5,7,10(Default),11,12,15

I/O address PCI: Assigned by BIOS
ISA: 0x0000 – 0xFFFF
Default: 0x180

OS Supported

C168H/PCI Windows 2000, Windows NT, Windows 95/98/ME, DOS, AT&T UNIXSVR4.2, MITUXSVR4.2, Unix WareSVR4.2, Unix Ware7SVR5, SCO Open Server, SCO UNIX, Linux 2.0.x (Intel x86), Linux 2.0.x (Alpha), Linux 2.2.x (Intel x86), Linux 2.2.x (Alpha)

C168H Windows 2000, Windows NT,
C168HS Windows 95/98/ME, DOS, AT&T UNIXSVR4.2, MITUXSVR4.2, Unix Ware SVR4.2, Unix Ware7 SVR5, SCO Open Server, SCO UNIX, SCO XENIX, Linux 2.0.x (Intel x86), Linux 2.0.x (Alpha), Linux 2.2.x (Intel x86), Linux 2.2.x (Alpha), QNX, FreeBSD

Power and Environment

Power requirements C168H/PCI: 260 mA max. (+5V)
100 mA max. (+12V)
60 mA max. (-12V)
C168H : 170 mA max. (+5V)
100 mA max. (+12V)
60 mA max. (-12V)
C168HS: 170 mA max. (+5V)
100 mA max. (+12V)
60 mA max. (-12V)

Operating temp. 0-55C

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

Surge Protection 25 KV ESD, 2 KV EFT

Optical Isolation 500V

Regulatory approvals FCC, CE

If you need a product with optical isolation, see the Optional Connectors list below for more information.

Ordering Information

C168H/PCI • PCI bus, 8 port smart serial board

C168H • ISA bus, 8 port smart serial board

C168HS • ISA bus, 8 port smart serial board with surge protection

All items include • MOXA software CD-ROM § contains drivers, and MOXA PComm Lite serial comm development tool
• Manual

Optional Connectors (choose one per board)

Opt8A Opt8F

Opt8B Opt8Z

Opt8C Opt8J

Opt8D Opt8S

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