

C168H/HS

8-port RS-232 ISA serial boards



PCComm Lite

- > Compact ISA boards with 8 RS-232 ports
- > 921.6 kbps maximum baudrate for super fast data transmission
- > 16-byte FIFO and on-chip H/W flow control
- > Choose from a wide range of connection cables and boxes
- > Drivers provided for Windows, Windows XP Embedded, DOS, Linux 2.4, 2.6, 3, QNX 4/6, FreeBSD, SCO OpenServer UnixWare 7, Solaris 10
- > Easy configuration, without switches or jumpers



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Multiport Serial Boards > C168H/HS

: Overview

The 8-port C168H/HS ISA boards offer users a basic, high-performance multiport serial communication solution for connecting terminals, modems, printers, data acquisition equipment, and other serial devices to a PC. The boards are a top choice of industrial

automation engineers and system integrators, and they support many different operating systems, including Windows, Linux, and even Unix. In addition, each of the 8 RS-232 ports supports a superfast 921.6 kbps baudrate.

: Specifications

Hardware

Comm. Controller: 16C550C or compatible x 8

Bus: 16-bit ISA

Connector: DB62 female

Serial Interface

Number of Ports: 8

Serial Standards: RS-232

Max. No. of Boards per PC: 4

Serial Line Protection

Electrical Isolation: 500 V with connector Opt8F (must be purchased separately)

Performance

Baudrate: 50 bps to 921.6 kbps

Serial Communication Parameters

Data Bits: 5, 6, 7, 8

Stop Bits: 1, 1.5, 2

Parity: None, Even, Odd, Space, Mark

I/O Address: 0x0000-0xFFFF (default = 0x180)

IRQ: 2 (9), 3, 4, 5, 7, 10 (default), 11, 12, 15

Serial Signals

RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

Physical Characteristics

Dimensions: 93 x 157 mm (3.66 x 6.18 in)

Driver Support

Windows: Windows 95/98/ME/NT/2000, Windows XP/2003/Vista/2008/7/8/8.1 (x86/x64), Windows 2008 R2/2012/2012 R2 (x64), DOS, Windows Embedded CE 5.0/6.0, Windows XP Embedded

Linux: Linux 2.4.x, 2.6.x, 3.x

Unix-like Systems: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

Note: Please refer to Moxa's website for the latest driver support information.

Environmental Limits

Operating Temperature: 0 to 55°C (32 to 131°F)

Storage Temperature: -20 to 85°C (-4 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

EMC: EN 55022/24

EMI: CISPR 22, FCC Part 15B Class B

EMS:

IEC 61000-4-2 ESD: Contact: 4 kV; Air: 8 kV

IEC 61000-4-3 RS: 80 MHz to 1 GHz: 3 V/m

IEC 61000-4-4 EFT: Power: 1 kV; Signal: 0.5 kV

IEC 61000-4-5 Surge: Power: 2 kV

IEC 61000-4-6 CS: 150 kHz to 80 MHz: 3 V/m; Signal: 3 V/m

IEC 61000-4-8 PFMF

IEC 61000-4-11

MTBF (mean time between failures)

Time: 601,501 hrs

Standard: MIL-HDBK-217F

Power Requirements

Input Current: 170 mA @ +5 VDC; 100 mA @ +12 VDC; 160 mA @ -12 VDC

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

: Ordering Information

Available Models

C168H: 8-port RS-232 ISA serial board

C168HS: 8-port RS-232 ISA serial board with surge protection

Connection Options (can be purchased separately)

CBL-M62M9x8-100: M62 to 8 x DB9-M cable, 100 cm

CBL-M62M25x8-100: M62 to 8 x DB25-M cable, 100 cm

Optional Connectors (choose one per board)

OPT8A: M62 to 8 x DB25-F connection box w/ 150 cm DB62-M to DB62-F cable

OPT8B: M62 to 8 x DB25-M connection box w/ 150 cm DB62-M to DB62-F cable

OPT8S: M62 to 8 x DB25-F connection box w/ surge protection, and 150 cm DB62-M to DB62-F cable

OPT8-M9: M62 to 8 x DB9-M connection box w/ 150 cm DB62-M to DB62-F cable

OPT8-RJ45: M62 to 8 x RJ45 (8-pin) connection box w/ 30 cm cable

Package Checklist

- 1 C168H or C168HS board
- Documentation and software CD
- Quick installation guide (printed)
- Warranty card