

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, Linux 2.6, QNX 4/6, FreeBSD, SCO OpenServer UnixWare 7, Solaris 10
- > Easy configuration, without switches or jumpers



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 support many different operating systems, including Windows, Linux, and even Unix. In addition, each of the 8 RS-232 ports supports a super fast 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

ESD Protection: 25 kV on the board (C168HS only)
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

Operating Systems

Windows Real COM Drivers: 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

Fixed TTY Drivers: QNX 6, SCO OpenServer, UnixWare 7, Solaris 10, FreeBSD

Linux Real TTY Drivers: Linux 2.4.x, 2.6.x

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

Physical Characteristics

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

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)
Altitude: Up to 2000 m

Note: Please contact Moxa if you require products guaranteed to function properly at higher altitudes.

Standards and Certifications

EMC: CE, FCC
EMI: EN 55022, FCC Part 15 Subpart B Class A
EMS: EN 61000-4-2, EN 61000-4-3, EN 61000-4-4
Green Product: RoHS, CRoHS, WEEE

MTBF (mean time between failures)

Time: 601,501 hrs
Database: MIL-HDBK-217F, GB 25°C

Power Requirements

Power Consumption: 170 mA max. @ +5 V, 100 mA max. @ +12 V, 160 mA max. @ -12 V

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)

Choose from a wide selection of cables and boxes: See page 10-41 for details

Package Checklist

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