C168H/HS

8-port RS-232 ISA serial boards

> 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

PComm Lite

RoHS ☒ CE FC

: 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 55032/24
EMI: CISPR 32, 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

MOXA®