

Models: 232CC1A, 232CC1B, 232CC2A, 232CC2B
Any Address, Any IRQ,
RS-232 Serial Cards ☺

Overview

B&B Electronics' 232CC series RS-232 serial interface cards provide the flexibility needed to fit into today's complex communication systems. Designed for the IBM PC, XT, AT and compatibles, the 232CC card ports may be independently configured for any I/O address and any available hardware interrupt. Ports are configured as a standard DTE device, and connections are made on 9-pin male D-style connectors.

The 232CC cards now feature Enhanced Address Decoding, which decodes the entire 16-bit address bus, versus the 10 bits traditionally used by serial cards. This feature minimizes hardware conflict potential by eliminating shadowing of the serial port at higher addresses, eliminating the COM 4 - video card conflict. Also featured on the 232CC cards is a clock doubling feature which allows each port to communicate at up to 230.4 Kbaud when enabled. This option doubles the baud rate set by the software.

High speed 16550A UARTs come standard with the 232CC series cards. Optionally, the new 16850 UART is available, featuring 128-byte transmit and receive FIFO's and full 16450 and 16550A compatibility. **NOTE:** to enable these enhanced features, the driver software must support the 16850.

Features

- Switch selectable addresses, from 0 to hex 3F8, including COM1 - COM4
- Enhanced 16-bit address decoding
- Baud rates up to 230.4 Kbaud with 2X clock option enabled
- 16550A UARTs standard, 16850 UARTs available
- Jumper selectable interrupts: 2, 3, 4, 5, 6, 7, 10, 11, 12, 14, and 15
- Supports all standard RS-232 lines: TD, RD, RTS, CTS, DSR, DCD, DTR, and RI

Specifications

- Bus: IBM PC ISA Bus
- Slot: Requires 1 full length slot for complete IRQ selectability.
When installed in a short slot, IRQs 10-15 will not be available.
- Dimensions: 6.3 x 3.3 in (16.0 X 8.4cm)
- I/O connection: 9-pin male D-sub connectors
- Baud rates: 230,400 Baud max with x2 clock jumper enabled
- Character length: 5, 6, 7, or 8 bits
- Parity: Even, odd or none
- Stop bits: 1, 1.5, or 2
- Interrupt: IRQ 2, 3, 4, 5, 6, 7, 10, 11, 12, 14, or 15
- Address: Switch programmable, 0 to hex 3F8

RS-232 Transceiver

- TD and RD Device: DS232AS
- Transmitter output voltage: ± 5.0 V minimum
- Short circuit current: ± 30 mA typical
- Input low level threshold voltage: 0.8 V minimum
- Input high level threshold voltage: 2.4V maximum
- Device will withstand ±30 V

Handshake line device: SN75185

- Transmitter output voltage: ± 10.0 V minimum
- Short circuit current: ±12 mA typical
- Input low level threshold voltage: 0.65 V minimum
- Input high level threshold voltage: 2.5V maximum
- Device will withstand ±30 V

International Headquarters:

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Power Consumption (2-port model):
+5V, 115mA, 575mW
+12V, 50mA, 600mW
-12V, 72mA, 864mW
Total maximum power draw: 2.039 W

Ordering Information

The 232CC cards are available in 1 and 2 port version and with the 16850 UART. Add a "1" or "2" suffix to the 232CC part number to specify the number of ports. Add "B" suffix to specify the 16850 UART.

| <u>Model:</u> | <u>Description:</u> |
|---------------|-----------------------------------------------------------------|
| 232CC1A | ISA 1-Port RS-232 Serial Card with 16550A UART, 16-byte buffer |
| 232CC1B | ISA 1-Port RS-232 Serial Card with 18850A UART, 128-byte buffer |
| 232CC2A | ISA 2-Port RS-232 Serial Card with 16550A UART, 16-byte buffer |
| 232CC2B | ISA 2-Port RS-232 Serial Card with 16850A UART, 128-byte buffer |

| DECLARATION OF CONFORMITY | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|
| Manufacturer's Name: | B&B Electronics Manufacturing Company |
| Manufacturer's Address: | P.O. Box 1040 707 Dayton Road Ottawa, IL 61350 USA |
| Model Numbers: | 232CC1A, 232CC1B, 232CC2A, 232CC2B |
| Description: | RS-232 Serial Cards |
| Type: | Light industrial ITE equipment |
| Application of Council Directive: | 89/336/EEC |
| Standards: | EN 50082-1 EN 61000 (-4-2, -4-3, -4-4, -4-6) |
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| William H. Franklin III, Director of Engineering | |
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