

CB34 EX

2-Port CAN to Ethernet Server

100 Version



DATASHEET

Key Points

- Serial to Ethernet server
- CAN device support (programming required)
- DeviceNet compliant
- RS-232 and RS-422/485 serial device support
- Works out of the box - no programming is required
- Metal enclosure
- Rebrand with your custom product label
- Customize with development kit

Note: Programming required for products which use CAN

Features

- Power via two position terminal block, TSTRIP5, serial port, or barrel connector
- 10/100Mbps Ethernet
- TCP/UDP/Telnet modes
- DHCP/Static IP modes
- Web Based Configuration
- 32-bit performance
- Industrial Temperature Range (-40°C to 85°C)

Optional

The following options are available with the optional development kit:

- Customize any aspect of operation including web pages, data filtering, or custom network applications
- Additional baud rates
- CAN device support
- eTPU coprocessor
- Two bi-color programmable LEDs

The following optional software modules are not included with kit and are sold separately:

- Embedded SSL & SSH Security Suite (Module License Version)
- SNMP



Factory Application Specifications

Serial Port Baud Rate

Factory application supports up to 115,200 baud. Custom rates available with development kit.

Serial Protocols Supported

RS-232, RS-422, RS-485, DeviceNet compliant and CAN (programming required)

Serial Configurations

The two UARTs can be configured in the following ways:

- One RS-232 port, one RS-485 port
- One RS-485 port (full or half duplex on TSTRIP5), one RS-485 port (half-duplex on DB9)
- One RS-232 port, one CAN port (programming required)
- One RS-485 or RS-232 port, one CAN port (programming required)

Hardware Specifications

Processor & Memory

32-bit Freescale ColdFire 5234 running at 147.5MHz with 8MB SDRAM, and 2MB Flash.

Network Interface

10/100 BaseT with RJ-45 connector

Data I/O Interface

- Two UARTs
- CAN Interface

Storage

MicroSD/MMC Flash Card Interface (with SDHC support)

LEDs

Link, speed/data, power, and two bi-color general purpose programmable LEDs

Physical Characteristics

Dimensions (inches): 4.20" x 3.25" x 1.00"

Power

DC Input Voltage: 7V-24V

Environmental Operating Temperature

-40° to 85° C

RoHS Compliance

The Restriction of Hazardous Substances guidelines ensure that electronics are manufactured with fewer environment harming materials.

Agency Approvals

UL, C/UL, CE, FCC



Front and Back Panel



Connector Interface Description and Pinouts

The hardware has support for three serial interfaces: UART0 (RS-232), UART1 (RS-485/422) and CAN. Each serial interface can be configured via internal jumpers to appear on either the Terminal Strip 5 or DB9 connector.

Table 1: Connector Description

| Connector | Description | Default Setting |
|---------------|----------------------------|---------------------------|
| Port 0 | Terminal Strip 5 (TSTRIP5) | UART 1 RS-485 Half Duplex |
| Port 1 | DB9 Connector | UART 0 RS-232 |
| Power Input 1 | Barrel connector | Default power source |

Table 2: Serial Port Connector (Port 0 TSTRIP5) Pinout and Signal Description¹

| Pin | UART 0 RS-232 | UART 1 RS-485 | CAN | Description |
|-----|---------------------------|------------------------------|--------------------|---|
| 1 | GND | GND | GND | Ground |
| 2 | RX | HD/FD TX- | CANL | Receive or Half Duplex or Full Duplex Transmit Negative or CAN Low |
| 3 | TX | HD/FD TX+ | GND | Transmit or Half Duplex or Full Duplex Transmit Positive or Ground |
| 4 | RTS | FD RX- | CANH | Request To Send or Full Duplex Receive Negative or CAN High |
| 5 | CTS or PWRIN ¹ | FD RX+ or PWRIN ¹ | PWRIN ¹ | Clear To Send or Full Duplex Receive Positive or Raw DC Power Input |

Note:

1. Optional power input

Table 3: Serial Port Connector (Port 1 DB9 Connector) Pinout and Signal Description¹

| Pin | UART 0 RS-232 | UART 1 RS-485 | CAN | Description |
|-----|--------------------------|--------------------|--------------------|---|
| 1 | CD | - | - | Carrier Detect |
| 2 | RX | HD/FD TX- | CANL | Receive or Half Duplex or Full Duplex Transmit Negative or CAN Low |
| 3 | TX | FD RX+ | GND | Transmit or Full Duplex Receive Positive or Ground |
| 4 | DTR | - | - | Data Terminal Ready |
| 5 | GND | GND | GND | Ground |
| 6 | DSR | FD RX- | GND | Data Set Ready or Full Duplex Receive Negative or Ground |
| 7 | RTS | HD/FD TX+ | CANH | Request To Send or Half Duplex or Full Duplex Transmit Positive or CAN High |
| 8 | CTS | - | - | Clear To Send |
| 9 | RI or PWRIN ¹ | PWRIN ¹ | PWRIN ¹ | Ring Indicator or Raw DC Power Input |

Note:

- Optional power input

Table 4: Power Connector (Power Input 1 Barrel Connector) Pinout and Signal Description¹

| Pin | Signal | Description |
|-------------|----------|--------------------|
| Outer Shell | Negative | Ground |
| Center Pin | Positive | Raw DC Power Input |

Note:

- Optional power input

Part Numbers

CB34 EX 2-Port Serial to Ethernet Server

Part Number: CB34-EX-100IR

DIN Rail Mounting Kit (100 Version, double sided)

Part Number: DIN-100

DIN Rail Mounting Kit (200 Version, single sided)

Part Number: DIN-200

CB34 EX Development Kit

Part Number: NNDK-CB34EX-KIT

Kit includes all the hardware and software you need to customize the included platform hardware. See NetBurner Store product page for package contents.

Embedded SSL & SSH Security Suite (Module License Version)

Part Number: NBLIC-SSL-MODULE

Available as an option if you are using a development kit.

SNMP V1 (Module License Version)

Part Number: NBLIC-SNMP

Available as an option if you are using a development kit.

Ordering Information

E-mail: sales@netburner.com

Online Store: www.NetBurner.com

Telephone: 1-800-695-6828

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