

CB34-EX Hardware Configuration

IMPORTANT:

- UART 0 RS 232 **cannot** be used on **DB9 and TSTRIP5** at the **same** time
- UART 1 RS 485 **cannot** be used on **DB9 and TSTRIP5** at the **same** time
- CAN **cannot** be used on **DB9 and TSTRIP5** at the **same** time

CB34EX DB9 Connector Descriptions

Pin	UART 0 RS-232	UART 1 RS-485	CAN
1	CD	---	---
2	RX	HD/FD TX-	CANL
3	TX	FD RX+	GND*
4	DTR	---	---
5	GND	GND	GND
6	DSR	FD RX-	GND*
7	RTS	HD/FD TX+	CANH
8	CTS	---	---
9	RI	PWRIN*	PWRIN*

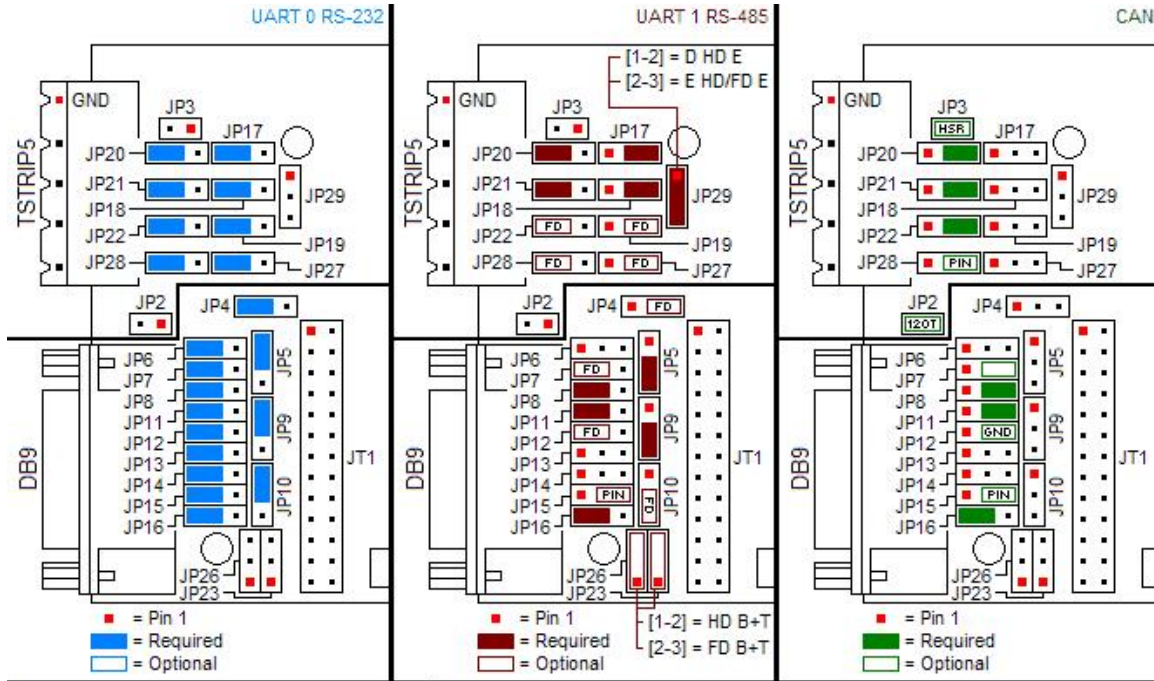
* Optional

CB34EX TSTRIP5 Connector Descriptions

Pin	UART 0 RS-232	UART 1 RS-485	CAN
1	GND	GND	GND*
2	RX	HD/FD TX-	CANL
3	TX	HD/FD TX+	GND
4	RTS	FD RX-	CANH
5	CTS	FD RX+	PWRIN*

* Optional

TSTRIP5 Connector Descriptions



- Key**
- PIN = Power Input
 - FD = Full-Duplex
 - D HD E = Disable Half-Duplex Echo
 - E HD/FD E = Enable Half/Full-Duplex Echo
 - HD B+T = Half-Duplex Biasing and Termination
 - FD B+T = Full-Duplex Biasing and Termination
 - GND = Ground
 - HSR = High Slew-Rate Control
 - 120T = 120-Ohm Termination

- Notes**
- No one function can be used on both ports at the same time. For example, UART 0 RS-232 cannot be configured for both TSTRIP5 and DB9 at the same time.
 - JP23, JP26, and JP29 are used to configure RS-485, regardless of which interface is used.
 - JP2 and JP3 are used to configure CAN, regardless of which interface is used.

UART 0 RS-232 via DB9 (J2)

Jumper	Configuration	Description	DB9 Pin
JP4	Connect 1-2	Data Set Ready	6
JP5	Connect 1-2	Receive	2
JP6	Connect 1-2	Data Carrier Detect	1
JP7	Connect 1-2	Data Set Ready	6
JP8	Connect 1-2	Receive	2
JP9	Connect 1-2	Request to Send	7
JP10	Connect 1-2	Transmit	3
JP11	Connect 1-2	Request to Send	7
JP12	Connect 1-2	Transmit	3
JP13	Connect 1-2	Clear to Send	8
JP14	Connect 1-2	Data Terminal Ready	4
JP15	Connect 1-2	Ring Indicator	9
JP16	Connect 1-2	Ground	5

UART 1 RS-485 via DB9 (J2)

Jumper	Configuration	Description	DB9 Pin
JP4	Connect 2-3 (if using full-duplex)	Z / Rx -	6
JP5	Connect 2-3	B / Tx -	2
JP6	Disconnect		
JP7	Connect 1-2 (if using full-duplex)	Z / Rx -	6
JP8	Connect 1-2	B / Tx -	2
JP9	Connect 2-3	A / Tx +	7
JP10	Connect 2-3 (if using full-duplex)	Y / Rx +	3
JP11	Connect 1-2	A / Tx +	7
JP12	Connect 1-2 (if using full-duplex)	Y / Rx +	3
JP13	Disconnect		
JP14	Disconnect		
JP15	Connect 2-3 (optional)	Power Input	9
JP16	Connect 1-2	Ground	5
JP23 / JP26	Connect 1-2 (optional)	Half-Duplex Biasing and Termination	
	Connect 2-3 (optional)	Full-Duplex Biasing and Termination	
JP29	Connect 1-2	Disable Half-Duplex Echo	
	Connect 2-3	Enable Full or Half-Duplex Echo	

CAN via DB9 (J2)

Jumper	Configuration	Description	DB9 Pin
JP2	Connect (optional)	120-Ohm Termination	
JP3	Connect (optional)	High Slew-Rate Control	
JP4	Disconnect		
JP5	Disconnect		
JP6	Disconnect		
JP7	Connect 2-3 (optional)	Ground	6
JP8	Connect 2-3	CAN Low	2
JP9	Disconnect		
JP10	Disconnect		
JP11	Connect 2-3	CAN High	7
JP12	Connect 2-3 (optional)	Ground	3
JP13	Disconnect		
JP14	Disconnect		
JP15	Connect 2-3 (optional)	Power Input	9
JP16	Connect 1-2	Ground	5

UART 0 RS-232 via TSTRIP5 (JP1)

Jumper	Configuration	Description	TSTRIP5 Pin
JP17	Connect 1-2	Receive	2
JP18	Connect 1-2	Transmit	3
JP19	Connect 1-2	Request to Send	4
JP20	Connect 1-2	Receive	2
JP21	Connect 1-2	Transmit	3
JP22	Connect 1-2	Request to Send	4
JP27	Connect 1-2	Clear to Send	5
JP28	Connect 1-2	Clear to Send	5

UART 1 RS-485 via TSTRIP5 (JP1)

Jumper	Configuration	Description	TSTRIP5 Pin
JP17	Connect 2-3	B / Tx -	2
JP18	Connect 2-3	A / Tx +	3
JP19	Connect 2-3 (if using full-duplex)	Z / Rx -	4
JP20	Connect 1-2	B / Tx -	2
JP21	Connect 1-2	A / Tx +	3
JP22	Connect 1-2 (if using full-duplex)	Z / Rx -	4
JP27	Connect 2-3 (if using full-duplex)	Y / Rx +	5
JP28	Connect 1-2 (if using full-duplex)	Y / Rx +	5
JP23 / JP26	Connect 1-2 (optional)	Half-Duplex Biasing and Termination	
	Connect 2-3 (optional)	Full-Duplex Biasing and Termination	
JP29	Connect 1-2	Disable Half-Duplex Echo	
	Connect 2-3	Enable Full or Half-Duplex Echo	

CAN via TSTRIP5 (JP1)

Jumper	Configuration	Description	TSTRIP5 Pin
JP2	Connect (optional)	120-Ohm Termination	
JP3	Connect (optional)	High Slew-Rate Control	
JP17	Disconnect		
JP18	Disconnect		
JP19	Disconnect		
JP20	Connect 2-3	CAN Low	2
JP21	Connect 2-3	Ground	3
JP22	Connect 2-3	CAN High	4
JP27	Disconnect		
JP28	Connect 2-3 (optional)	Power Input	5