

Serial Connection Options

Serial Board Connection Box/Cable Usage Chart

Serial Board Model Name	Connection Boxes						Connection Cables													
	8-port						8-port						4-port				2-port			
	OPT8-M9	OPT8-RJ45	OPT8A/B/S	OPT8-M9+	OPT8A+/B+/S+	OPT8-RJ45+	CBL-M66M25x8-100 (OPT8C+)	CBL-M66M9x8-100 (OPT8D+)	CBL-M62M25x8-100 (OPT8C)	CBL-M62M9x8-100 (OPT8D)	CBL-M78M25x8-100	CBL-M78M9x8-100	CBL-M44M9x4-50	CBL-M44M9x4-50(POS)	CBL-M44M25x4-50	CBL-M37M9x4-30 (OPT4C)	CBL-M37M9x4-30 (OPT4D)	CBL-F40M25x4-50	CBL-M25M9x2-50	CBL-F20M25x2-50
C218Turbo Series	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
C104H Series	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-
CI-134 Series	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-
CP-118U	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
CP-138U	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
CP-168U	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
C168H Series	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
CP-104UL	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-134U Series	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-114UL	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-114UL-I	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-104EL-A	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-114EL	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-114EL-I	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-	-	-
CP-112UL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-112UL-I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-132UL Series	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-102UL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-102EL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-132EL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-132EL-I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-
CP-118EL-A	-	-	-	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
CP-168EL-A	-	-	-	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-
CP-118U-I	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-
CP-138U-I	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-
POS-104UL	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-
CA-108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CB-108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CA-114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CB-114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CA-134I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CB-134I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CA-104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-
CA-132	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓
CA-132I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓

8-port RS-232 Connection Boxes


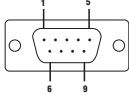
Model Name	OPT8-M9	OPT8-RJ45	OPT8A/S	OPT8B
Accessories Image				
Pin Assignment				
Board-Side Connector	DB62 male x 1			
Device-Side Connector	DB9 male x 8	8-pin RJ45 x 8		DB25 female x 8
LEDs	TxD, RxD indicators for each device-side port		TxD, RxD indicators for each device-side port	
Baudrate	50 bps to 921.6 kbps			
Dimensions	90 x 111 x 27.5 mm (3.5 x 4.3 x 1 in)	152.8 x 32.8 x 32 mm (6 x 1.29 x 1.25 in)		
Protection	-		25 kV ESD, 2 KV EFT surge protection (OPT8S only)	-
Connection Cable	DB62 male to DB62 female 150 cm connection cable for connecting to the serial board	DB62 male to DB62 male 150 cm connection cable for connecting to the serial board		
Related Products	See page A-2 for details			

Model Name	OPT8-M9+	OPT8-RJ45+	OPT8A+/S+	OPT8B+
Accessories Image				
Pin Assignment				
Board-Side Connector	VHDCI 68 x 1			
Device-Side Connector	DB9 male x 8	8-pin RJ45 x 8		DB25 male x 8
LEDs	TxD, RxD indicators for each device-side port		TxD, RxD indicators for each device-side port	
Baudrate	50 bps to 921.6 kbps			
Dimensions	90 x 111 x 27.5 mm (3.5 x 4.3 x 1 in)	152.8 x 32.8 x 32 mm (6 x 1.29 x 1.25 in)		
Protection	-		25 KV ESD, 2 KV EFT surge protection (OPT8S only)	-
Connection Cable	DB68 male to DB62 female 150 cm connection cable for connecting to the serial board	DB68 male to DB62 male 150 cm connection cable for the connecting to the serial board		
Related Products	See page A-2 for details			




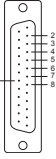
8-port RS-232 Connection Cables

Model Name	CBL-M62M25x8-100 (OPT8C)	CBL-M62M9x8-100 (OPT8D)	CBL-M68M25x8-100 (OPT8C+)	CBL-M68M9x8-100 (OPT8D+)	CBL-M78M25x8-100	CBL-M78M9x8-100
Accessories Image						
Pin Assignment						
Board-Side Connector	DB62 male x 1	VHDCI 68 x 1		DB9 male x 8	DB78 male x 1	DB9 male x 8
Device-Side Connector	DB25 male x 8	DB9 male x 8	DB25 male x 8	DB9 male x 8	DB25 male x 8	DB9 male x 8
Cable Length	100 cm (39.37 in)					
Related Products	See page A-2 for details					











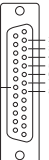





2-port Connection Cables

Model Name	CBL-M25M9x2-50																		
Accessories Image																			
Pin Assignment	 <table border="1"> <thead> <tr> <th>PIN</th> <th>RS-232</th> </tr> </thead> <tbody> <tr><td>1</td><td>DCD</td></tr> <tr><td>2</td><td>RxD</td></tr> <tr><td>3</td><td>TxD</td></tr> <tr><td>4</td><td>DTR</td></tr> <tr><td>5</td><td>GND</td></tr> <tr><td>6</td><td>DSR</td></tr> <tr><td>7</td><td>RTS</td></tr> <tr><td>8</td><td>CTS</td></tr> </tbody> </table>	PIN	RS-232	1	DCD	2	RxD	3	TxD	4	DTR	5	GND	6	DSR	7	RTS	8	CTS
PIN	RS-232																		
1	DCD																		
2	RxD																		
3	TxD																		
4	DTR																		
5	GND																		
6	DSR																		
7	RTS																		
8	CTS																		
Description	DB25 male to DB9 male x 2																		
Cable Length	50 cm (19.69 in)																		
Related Products	See page A-2 for details																		

4-port Connection Cables

Model Name	CBL-M44M9x4-50	CBL-M44M25x4-50																																																																																																				
Accessories Image																																																																																																						
Pin Assignment	 <table border="1"> <thead> <tr> <th>PIN</th> <th>RS-232</th> <th>RS-422</th> <th>RS-485-4w</th> <th>RS-485-2w</th> </tr> </thead> <tbody> <tr><td>1</td><td>DCD</td><td>TxD-(A)</td><td>TxD-(A)</td><td>-</td></tr> <tr><td>2</td><td>RxD</td><td>TxD+(B)</td><td>TxD+(B)</td><td>-</td></tr> <tr><td>3</td><td>TxD</td><td>RxD+(B)</td><td>RxD+(B)</td><td>Data+(B)</td></tr> <tr><td>4</td><td>DTR</td><td>RxD-(A)</td><td>RxD-(A)</td><td>Data-(A)</td></tr> <tr><td>5</td><td>GND</td><td>GND</td><td>GND</td><td>GND</td></tr> <tr><td>6</td><td>DSR</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>7</td><td>RTS</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>8</td><td>CTS</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>9</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	PIN	RS-232	RS-422	RS-485-4w	RS-485-2w	1	DCD	TxD-(A)	TxD-(A)	-	2	RxD	TxD+(B)	TxD+(B)	-	3	TxD	RxD+(B)	RxD+(B)	Data+(B)	4	DTR	RxD-(A)	RxD-(A)	Data-(A)	5	GND	GND	GND	GND	6	DSR	-	-	-	7	RTS	-	-	-	8	CTS	-	-	-	9	-	-	-	-	 <table border="1"> <thead> <tr> <th>PIN</th> <th>RS-232</th> <th>RS-422</th> <th>RS-485-4w</th> <th>RS-485-2w</th> </tr> </thead> <tbody> <tr><td>2</td><td>TxD</td><td>RxD+(B)</td><td>RxD+(B)</td><td>Data+(B)</td></tr> <tr><td>3</td><td>RxD</td><td>TxD+(B)</td><td>TxD+(B)</td><td>-</td></tr> <tr><td>4</td><td>RTS</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>5</td><td>CTS</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>6</td><td>DSR</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>7</td><td>GND</td><td>GND</td><td>GND</td><td>GND</td></tr> <tr><td>8</td><td>DCD</td><td>TxD-(A)</td><td>TxD-(A)</td><td>-</td></tr> <tr><td>20</td><td>DTR</td><td>RxD-(A)</td><td>RxD-(A)</td><td>Data-(A)</td></tr> <tr><td>22</td><td>-</td><td>-</td><td>-</td><td>-</td></tr> </tbody> </table>	PIN	RS-232	RS-422	RS-485-4w	RS-485-2w	2	TxD	RxD+(B)	RxD+(B)	Data+(B)	3	RxD	TxD+(B)	TxD+(B)	-	4	RTS	-	-	-	5	CTS	-	-	-	6	DSR	-	-	-	7	GND	GND	GND	GND	8	DCD	TxD-(A)	TxD-(A)	-	20	DTR	RxD-(A)	RxD-(A)	Data-(A)	22	-	-	-	-
PIN	RS-232	RS-422	RS-485-4w	RS-485-2w																																																																																																		
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22	-	-	-	-																																																																																																		
Description	DB44 male to DB9 male x4	DB44 male to DB25 male x4																																																																																																				
Cable Length	50 cm (19.69 in)																																																																																																					
Related Products	See page A-2 for details																																																																																																					

8-pin RJ45 to DB9/DB25 Connection Cables

Model Name	CBL-RJ45F25-150	CBL-RJ45F9-150	CBL-RJ45M25-150	CBL-RJ45M9-150	CBL-RJ45SF25-150	CBL-RJ45SF9-150	CBL-RJ45SM25-150	CBL-RJ45SM9-150
Accessories Image								
Pin Assignment								
Cable Type	-	-	-	-	Shielded	-	-	-
Board-Side Connector	8-pin RJ45 x 1							
Device-Side Connector	DB25 female x 1	DB9 female x 1	DB25 male x 1	DB9 male x 1	DB25 female x 1	DB9 female x 1	DB25 male x 1	DB9 male x 1
Cable Length	150 cm (59.06 in)							
Related Products	CP-104JU, OPT8-RJ45, NPort 5210, NPort 5600, NPort 6600, CN2510/2600							

10-pin RJ45 to DB9/DB25 Connection Cables

Model Name	CN20030	CN20040	CN20060	CN20070
Accessories Image				
Pin Assignment				
Board-Side Connector	10-pin RJ45 x 1			
Device-Side Connector	DB25 female x 1	DB25 male x 1	DB9 male x 1	DB9 female x 1
Cable Length	150 cm (59.06 in)			
Related Products	C320Turbo Series, A52, A53			

Wiring Kits

Model Name	TB-M9	TB-F9	TB-M25	TB-F25
Accessories Image				
Type	DB9 male DIN-rail wiring terminal	DB9 female DIN-rail wiring terminal	DM25 male DIN-rail wiring terminal	DB25 female DIN-rail wiring terminal
Connector	DB9 male	DB9 female	DB25 male	DB25 female
Rating	300 V, 20 A (IEC250V 10A)			
Operating Temperature	-40 to 105°C (-40 to 221°F)			
Suitable Wiring	24-12 AWG (IEC 0.5-2.5 mm ²)			
Dimensions	77.5 x 45 x 51 mm (3.05 x 1.77 x 2.01 in)		77.5 x 90 x 51 mm (3.05 x 3.54 x 2.01 in)	

Model Name	Mini DB9F-to-TB	ADP-RJ458P-DB9M	ADP-RJ458P-DB9F	A-ADP-RJ458P-DB9F-ABC01																																																																		
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Pin Assignment	<table border="1"> <thead> <tr> <th>DB9-F</th> <th>TB</th> </tr> </thead> <tbody> <tr><td>1</td><td>2</td></tr> <tr><td>2</td><td>1</td></tr> <tr><td>3</td><td>3</td></tr> <tr><td>4</td><td>4</td></tr> <tr><td>5</td><td>5</td></tr> </tbody> </table>	DB9-F	TB	1	2	2	1	3	3	4	4	5	5	<table border="1"> <thead> <tr> <th>DB9-M</th> <th>RJ45</th> </tr> </thead> <tbody> <tr><td>1</td><td>6</td></tr> <tr><td>2</td><td>5</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>4</td><td>8</td></tr> <tr><td>5</td><td>3</td></tr> <tr><td>6</td><td>1</td></tr> <tr><td>7</td><td>2</td></tr> <tr><td>8</td><td>7</td></tr> </tbody> </table>	DB9-M	RJ45	1	6	2	5	3	4	4	8	5	3	6	1	7	2	8	7	<table border="1"> <thead> <tr> <th>DB9-F</th> <th>RJ45</th> </tr> </thead> <tbody> <tr><td>1</td><td>6</td></tr> <tr><td>2</td><td>4</td></tr> <tr><td>3</td><td>5</td></tr> <tr><td>4</td><td>1</td></tr> <tr><td>5</td><td>3</td></tr> <tr><td>6</td><td>8</td></tr> <tr><td>7</td><td>7</td></tr> <tr><td>8</td><td>2</td></tr> </tbody> </table>	DB9-F	RJ45	1	6	2	4	3	5	4	1	5	3	6	8	7	7	8	2	<table border="1"> <thead> <tr> <th>DB9</th> <th>RJ45</th> </tr> </thead> <tbody> <tr><td>1</td><td>6</td></tr> <tr><td>2</td><td>5</td></tr> <tr><td>3</td><td>4</td></tr> <tr><td>4</td><td>8</td></tr> <tr><td>5</td><td>7</td></tr> <tr><td>6</td><td>1</td></tr> <tr><td>7</td><td>2</td></tr> <tr><td>8</td><td>7</td></tr> </tbody> </table>	DB9	RJ45	1	6	2	5	3	4	4	8	5	7	6	1	7	2	8	7
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Description	DB9 female to terminal block adapter for RS-422/485 applications	RJ45-to-DB9 male adapter	RJ45-to-DB9 female adapter	RJ45-to-DB9 female adapter																																																																		
Operating Temperature	0 to 70°C (32 to 158°F)	-15 to 70°C (5 to 158°F)	-15 to 70°C (5 to 158°F)	0 to 70°C (32 to 158°F)																																																																		
Dimensions																																																																						