

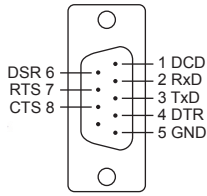
# Serial Connection Options

## : 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	OPT8F/Z	OPT8-M9+	OPT8A+/B+/S+	OPT8F+/K+/Z+	OPT8-RJ45+	CBL-M68M25x8-100 (OPT8C+)	CBL-M68M9x8-100 (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-F40M9x4-50	CBL-F40M25x4-50	CBL-M25M9x2-50	CBL-F20M9x2-50	CBL-F20M25x2-50	
C218Turbo Series	✓	✓	✓	✓	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C104H Series	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓	-	-	-	-	-	-
CP-114 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

### OPT8-M9



#### Connector Types

Board-side: DB62 male x 1  
Device-side: DB9 male x 8

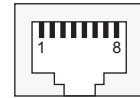
#### Specifications

LEDs: TxD, RxD indicators for each device-side port  
Dimensions: 90 x 110 x 27 mm (3.5 x 4.3 x 1.1 in)

#### Included Accessories

Connection Cable: DB62 male to DB62 female 150 cm connection cable for connecting to the serial board

### OPT8-RJ45



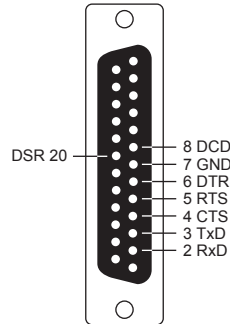
#### Connector Types

Board-side: DB62 male x 1  
Device-side: 8-pin RJ45 x 8

#### Cable Length

30 cm

### OPT8A/S



#### Connector Types

Board-side: DB62 male x 1  
Device-side: DB25 female x 8

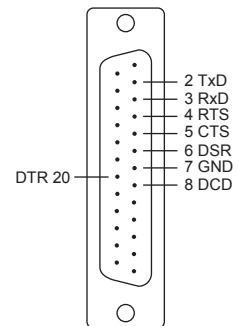
#### Specifications

LEDs: TxD, RxD for each device-side port  
Baudrate: 50 bps to 921.6 Kbps  
Dimensions: 247 x 108 x 35 mm (9.7 x 4.3 x 1.4 in)  
Protection: 25 KV ESD, 2 KV EFT surge protection (Opt8S only)

#### Included Accessories

Connection Cable: DB62 male to DB62 female 150 cm connection cable for connecting to the serial board

### OPT8B



#### Connector Types

Board-side: DB62 male x 1  
Device-side: DB25 male x 8

#### Specifications

LEDs: TxD, RxD indicators for each device-side port  
Baudrate: 50 bps to 921.6 Kbps  
Dimensions: 247 x 108 x 35 mm (9.7 x 4.3 x 1.4 in)

#### Included Accessories

Connection Cable: DB62 male to DB62 female 150 cm connection cable for connecting to the serial board

## 8-port RS-422 Connection Boxes

### OPT8F/Z

#### Connector Types

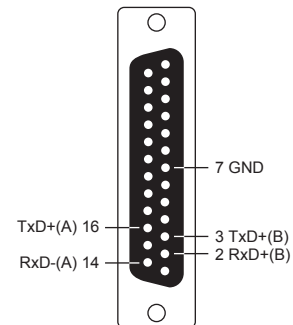
Board-side: DB62 male x 1  
Device-side: DB25 female x 8

#### Specifications

LEDs: TxD, RxD indicators for each device-side port  
Baudrate: 50 bps to 115.2 Kbps  
Dimensions: 247 x 108 x 35 mm (9.7 x 4.3 x 1.4 in)  
Optical Isolation: 500 V (Opt8F only)  
Power Consumption: 0.8 A max. @ 5 VDC

#### Included Accessories

Connection Cable: DB62 male to DB62 female 150 cm connection cable for connecting to the serial board  
Power Adaptor: 100/110/220 VAC



**: 8-port RS-232 Connection Cables**

**CBL-M62M25x8-100 (OPT8C)**

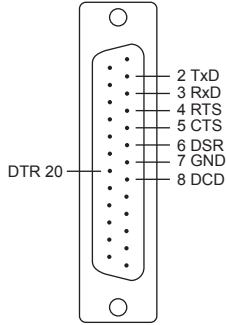
**Connector Types**

Board-side: DB62 male x 1

Device-side: DB25 male x 8

**Cable Length**

100 cm



**CBL-M62M9x8-100 (OPT8D)**

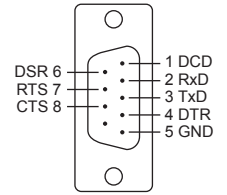
**Connector Types**

Board-side: DB62 male x 1

Device-side: DB9 male x 8

**Cable Length**

100 cm



**CBL-M68M25x8-100 (OPT8C+)**

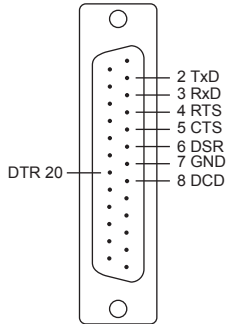
**Connector Types**

Board-side: VHDCI 68 x 1

Device-side: DB25 male x 8

**Cable Length**

100 cm



**CBL-M68M9x8-100 (OPT8D+)**

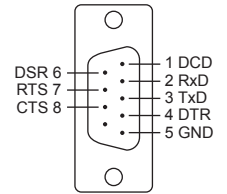
**Connector Types**

Board-side: VHDCI 68 x 1

Device-side: DB9 male x 8

**Cable Length**

100 cm



**CBL-M78M25x8-100**

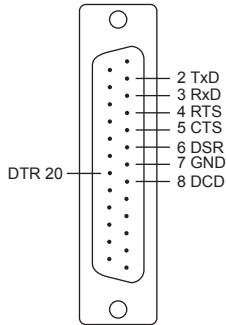
**Connector Types**

Board-side: DB78 male x 1

Device-side: DB25 male x 8

**Cable Length**

100 cm



**CBL-M78M9x8-100**

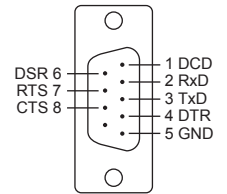
**Connector Types**

Board-side: DB78 male x 1

Device-side: DB9 male x 8

**Cable Length**

100 cm

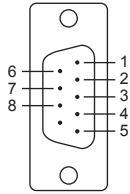


## 4-port Connection Cables

### CBL-F40M9x4-50

40-pin box header to 4-port DB9 male cable

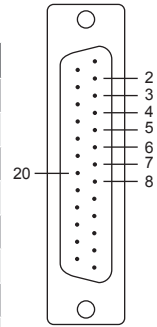
PIN	RS-232	RS-422	RS-485-4w	RS-485-2w
1	DCD	TxD-(A)	TxD-(A)	-
2	RxD	TxD+(B)	TxD+(B)	-
3	TxD	RxD+(B)	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	RxD-(A)	Data-(A)
5	GND	GND	GND	GND
6	DSR	-	-	-
7	RTS	-	-	-
8	CTS	-	-	-
9	-	-	-	-



### CBL-F40M25x4-50

40-pin box header to 4-port DB25 male cable

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	-	-	-	-

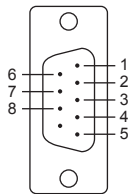


## 2-port Connection Cables

### CBL-F20M9x2-50

20-pin box header to 2-port DB9 male cable

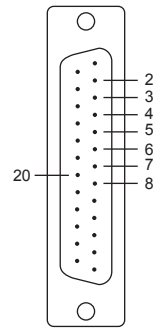
PIN	RS-422	RS-485-4w	RS-485-2w
2	RxD+(B)	RxD+(B)	Data+(B)
3	TxD+(B)	TxD+(B)	-
4	-	-	-
5	-	-	-
6	-	-	-
7	GND	GND	GND
8	TxD-(A)	TxD-(A)	-
20	RxD-(A)	RxD-(A)	Data-(A)
22	-	-	-



### CBL-F20M25x2-50

20-pin box header to 2-port DB25 male cable

PIN	RS-422	RS-485-4w	RS-485-2w
1	TxD-(A)	TxD-(A)	-
2	TxD+(B)	TxD+(B)	-
3	RxD+(B)	RxD+(B)	Data+(B)
4	RxD-(A)	RxD-(A)	Data-(A)
5	GND	GND	GND
6	-	-	-
7	-	-	-
8	-	-	-
9	-	-	-



## 10-pin RJ45 to DB9/DB25 Connection Cables

These cables can be used with the following products: C320Turbo Series, CP-204J, CI-104J, A52, A53, A60

### CN20030

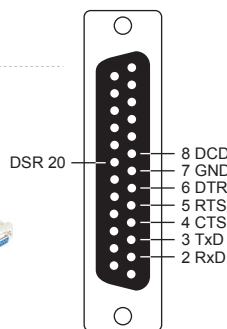
#### Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB25 female x 1

#### Cable Length

150 cm



### CN20060

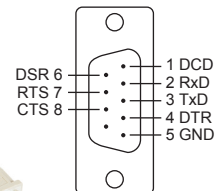
#### Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB9 male x 1

#### Cable Length

150 cm



### CN20040

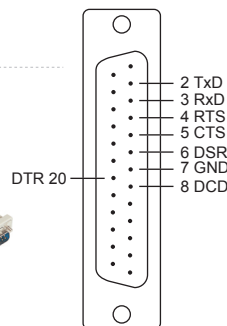
#### Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB25 male x 1

#### Cable Length

150 cm



### CN20070

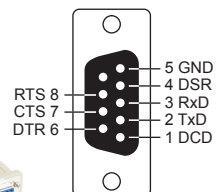
#### Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB9 female x 1

#### Cable Length

150 cm



## : 8-pin RJ45 to DB9/DB25 Connection Cables

These cables can be used with the following products: CP-104JU, OPT8-RJ45, NPort® 5210, NPort® 5600, NPort® 6600, CN2510/2600, NPort® W2004, UC-7410/7420

### CBL-RJ45F25-150

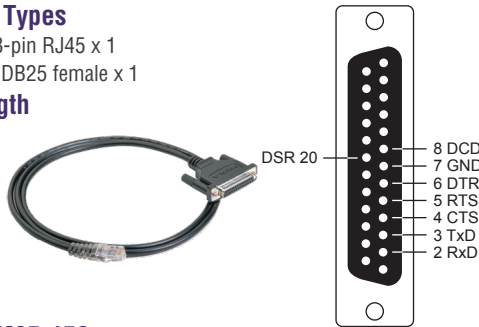
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 female x 1

#### Cable Length

150 cm



### CBL-RJ45F9-150

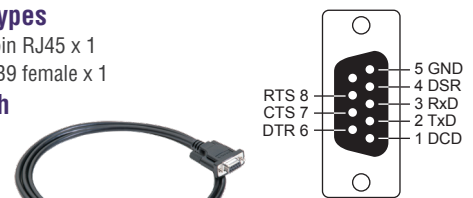
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 female x 1

#### Cable Length

150 cm



### CBL-RJ45M25-150

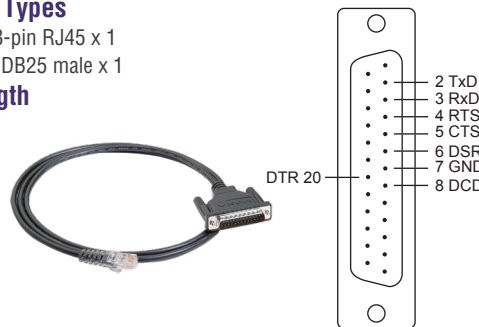
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 male x 1

#### Cable Length

150 cm



### CBL-RJ45M9-150

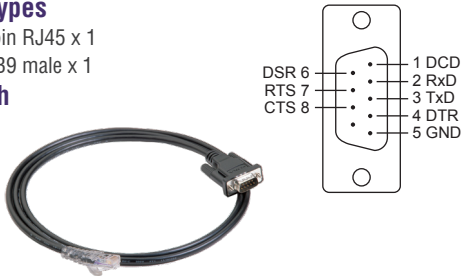
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 male x 1

#### Cable Length

150 cm



### CBL-RJ45SF25-150

Cable Type: Shielded

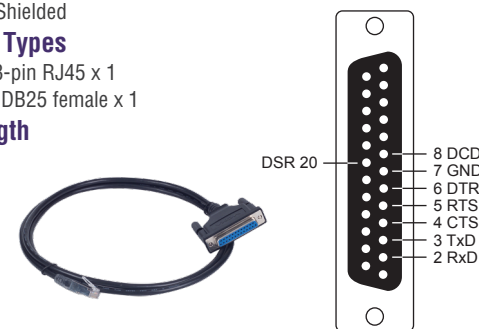
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 female x 1

#### Cable Length

150 cm



### CBL-RJ45SF9-150

Cable Type: Shielded

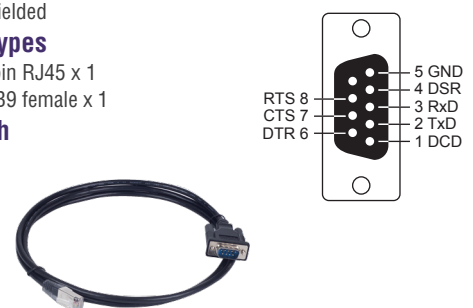
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 female x 1

#### Cable Length

150 cm



### CBL-RJ45SM25-150

Cable Type: Shielded

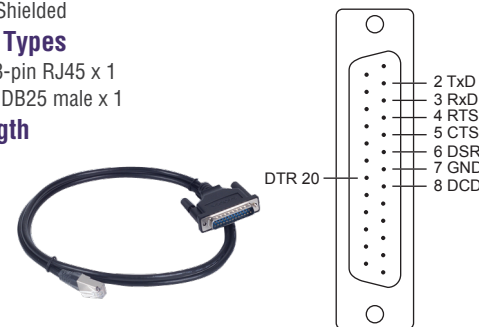
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 male x 1

#### Cable Length

150 cm



### CBL-RJ45SM9-150

Cable Type: Shielded

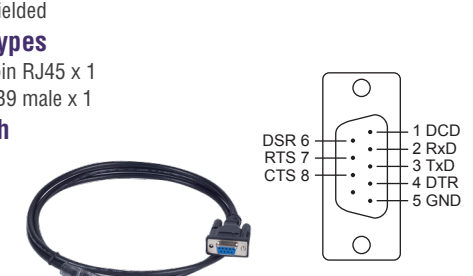
#### Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 male x 1

#### Cable Length

150 cm



**Wiring Kits**

**TB-M9**

Type: DB9 male DIN-rail wiring terminal

**Use with these products**

Device Servers: NPort® DE-311/304/334

**Specifications**

Connector: DB9 male

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<sup>2</sup>)

Dimensions: 77.5 x 45 x 51 mm (3.05 x 1.77 x 2.01 in)



**TB-F9**

Type: DB9 female DIN-rail wiring terminal

**Use with these products**

Device Servers: NPort® DE-311/304/334

Serial Boards: CI-132 Series,  
CP-132 Series, CP-102U

**Specifications**

Connector: DB9 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<sup>2</sup>)

Dimensions: 77.5 x 45 x 51 mm (3.05 x 1.77 x 2.01 in)



**TB-M25**

Type: DM25 male DIN-rail wiring terminal

**Use with these products**

Device Servers: NPort® DE-211

Serial Boards: CP-102UL, CP-132UL-I,  
CP-102EL, CP-132EL-I, CP-132EL

**Specifications**

Connector: DB25 male

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<sup>2</sup>)

Dimensions: 77.5 x 90 x 51 mm (3.05 x 3.54 x 2.01 in)



**TB-F25**

Type: DB25 female DIN-rail wiring terminal

**Use with these products**

Device Servers: NPort® DE-211

**Specifications**

Connector: 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<sup>2</sup>)

Dimensions: 77.5 x 90 x 51 mm (3.05 x 3.54 x 2.01 in)



**RJ45 to DB9 Adaptor**

Model Name: ADP-RJ458P-DB9M

Type: RJ45 to DB9 male



**RJ45 to DB9 Adaptor**

Model Name: ADP-RJ458P-DB9F

Type: RJ45 to DB9 female

