

Serial Connection Options

Multiport Box and Cable Usage Chart

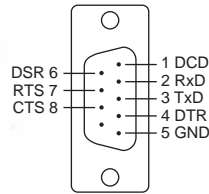
Connection Box & Connection Cable Usage Chart		C218 Turbo Series	C104H Series CP-114 Series CI-134 Series	CP-118U CP-138U	CP-168U C168H Series	CP-104UL CP-134U Series CP-114UL CP-104EL CP-114EL CP-114EL-I	CP-132U Series CP-102UL CP-102EL CP-132EL CP-132EL-I	CP-118EL	CP-168EL	CP-118U-I CP-138U-I	POS-104UL	CA-108 CB-108 CA-114 CB-114 CA-134I CB-134I CA-104	CA-132 CA-132I
Connection Boxes	8-port	OPT8-M9	√	---	√	√	---	---	---	---	---	---	---
		OPT8-RJ45	√	---	√	√	---	---	---	---	---	---	---
		OPT8A/B/S	√	---	√	√	---	---	---	---	---	---	---
		OPT8I/F/K/Z	√	---	---	√	---	---	---	---	---	---	---
		OPT8-M9+	---	---	---	---	---	---	√	√	---	---	---
		OPT8A+/B+/S+	---	---	---	---	---	---	√	√	---	---	---
		OPT8I+/F+/K+/Z+	---	---	---	---	---	---	---	√	---	---	---
		OPT8-RJ45+	---	---	---	---	---	---	√	√	---	---	---
Connection Cables	8-port	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)	---	---	---	---	---	---	---	---	---	√	---
	4-port	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	---	---	---	---	---	---	---	---	---	---	√



Accessories > Serial Connection Options

8-port RS-232 Connection Boxes

OPT8-M9



Connector Types

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

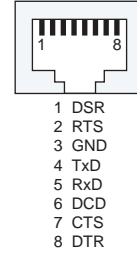
Specifications

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



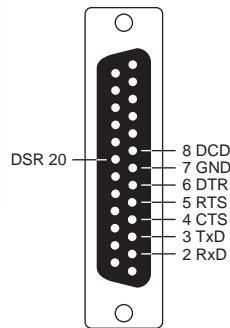
Connector Types

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

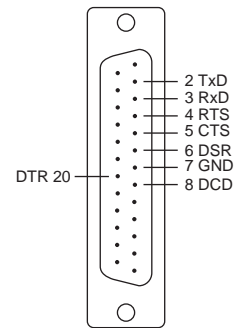
Specifications

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

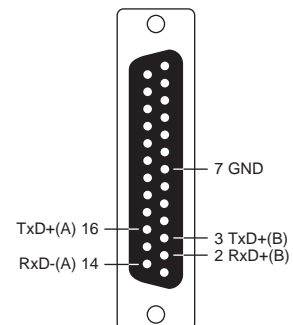
Specifications

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



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8-port RS-422/485 Connection Boxes

OPT8K/I

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 230.4 Kbps

Dimensions: 247 x 108 x 35 mm (9.7 x 4.3 x 1.4 in)

Protection: 16 KV ESD, 1 KV EFT surge protection (Opt8K only)

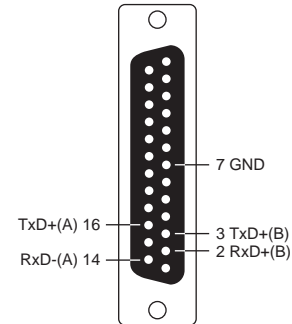
Optical Isolation: 2 KV (Opt8I only)

Power Consumption: 0.3 A max. @ 12 VDC

Included Accessories

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

Power Adaptor: 110/230 VAC



8-port RS-232 Connection Cables

CBL-M62M25x8-100 (OPT8C)

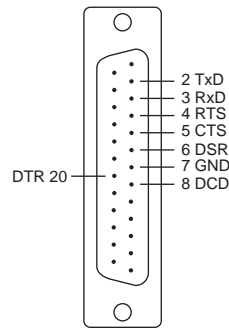
Connector Types

Board-side: DB62 male x 1

Device-side: DB25 male x 8

Cable Length

100 cm



CBL-M62M9x8-100 (OPT8D)

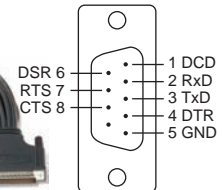
Connector Types

Board-side: DB62 male x 1

Device-side: DB9 male x 8

Cable Length

100 cm



CBL-M68M25x8-100 (OPT8C+)

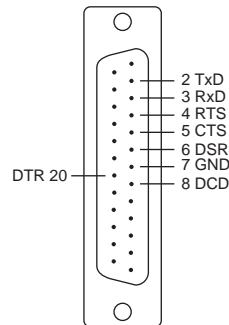
Connector Types

Board-side: VHDCI 68 x 1

Device-side: DB25 male x 8

Cable Length

100 cm



CBL-M68M9x8-100 (OPT8D+)

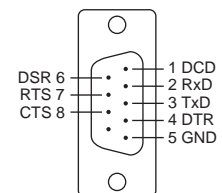
Connector Types

Board-side: VHDCI 68 x 1

Device-side: DB9 male x 8

Cable Length

100 cm



CBL-M78M25x8-100

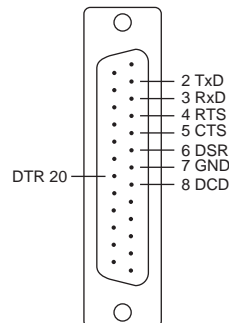
Connector Types

Board-side: DB78 male x 1

Device-side: DB25 male x 8

Cable Length

100 cm



CBL-M78M9x8-100

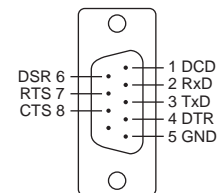
Connector Types

Board-side: DB78 male x 1

Device-side: DB9 male x 8

Cable Length

100 cm

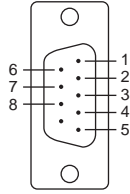


4-port Connection Cables

CBL-F40M9x4-50

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

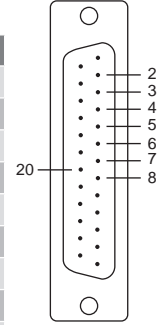
PIN	RS-232	RS-422	RS-485-4w	RS-485-2w
1	DCD	TxD-(A)	TxD-(A)	---
2	RxD	TxD+(B)	TxD+(B)	---
3	TxD	RxD+(B)	RxD+(B)	Data+(B)
4	DTR	RxD-(A)	RxD-(A)	Data-(A)
5	GND	GND	GND	GND
6	DSR	---	---	---
7	RTS	---	---	---
8	CTS	---	---	---
9	---	---	---	---



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	---	---	---	---

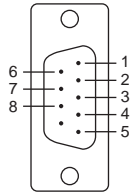


2-port Connection Cables

CBL-F20M9x2-50

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

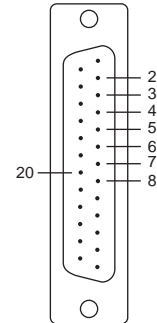
PIN	RS-422	RS-485-4w	RS-485-2w
2	RxD+(B)	RxD+(B)	Data+(B)
3	TxD+(B)	TxD+(B)	---
4	---	---	---
5	---	---	---
6	---	---	---
7	GND	GND	GND
8	TxD-(A)	TxD-(A)	---
20	RxD-(A)	RxD-(A)	Data-(A)
22	---	---	---



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

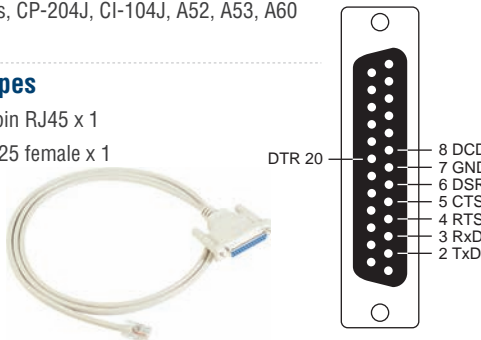
Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB25 female x 1

Cable Length

150 cm



CN20060

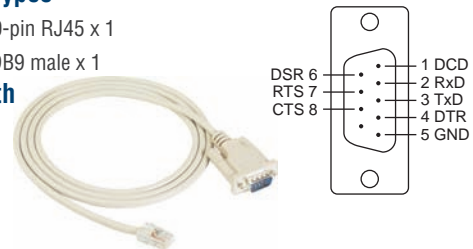
Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB9 male x 1

Cable Length

150 cm



CN20040

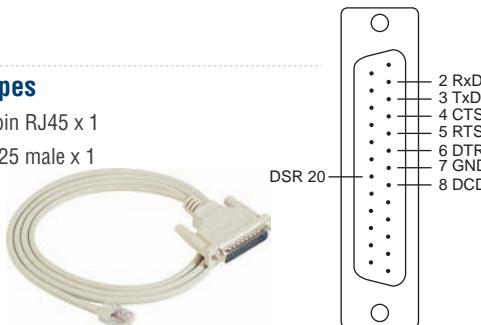
Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB25 male x 1

Cable Length

150 cm



CN20070

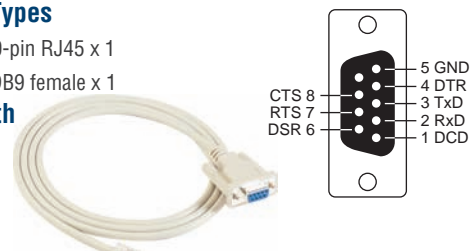
Connector Types

Board-side: 10-pin RJ45 x 1

Device-side: DB9 female x 1

Cable Length

150 cm



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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 6000,
 CN2510/2610, NPort W2004/W2250/W2150, UC-7410/7420

CBL-RJ45F25-150

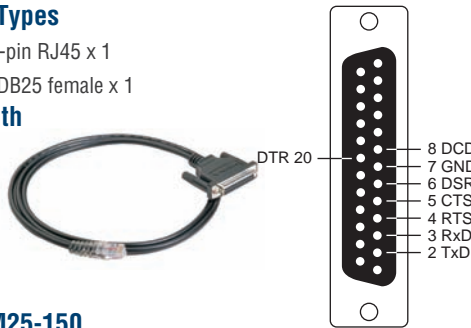
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 female x 1

Cable Length

150 cm



CBL-RJ45F9-150

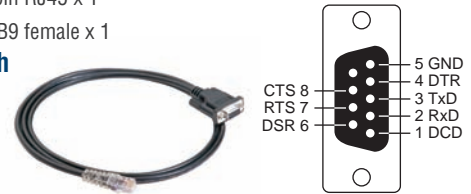
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 female x 1

Cable Length

150 cm



CBL-RJ45M25-150

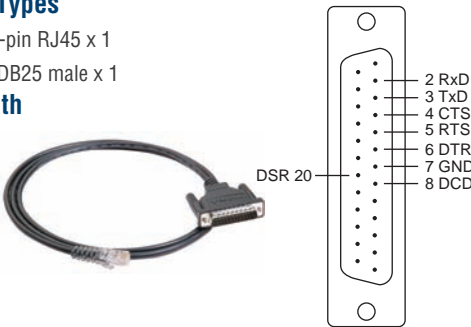
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 male x 1

Cable Length

150 cm



CBL-RJ45M9-150

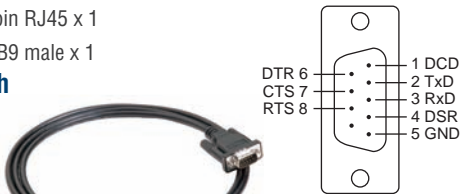
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 male x 1

Cable Length

150 cm



CBL-RJ45SF25-150

Shielded cable

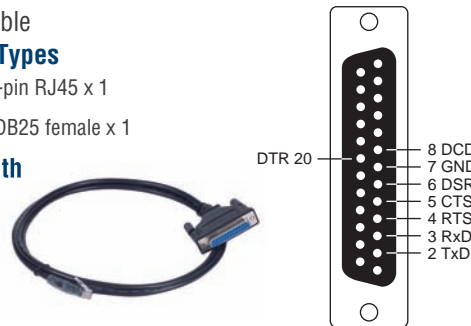
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 female x 1

Cable Length

150 cm



CBL-RJ45SF9-150

Shielded cable

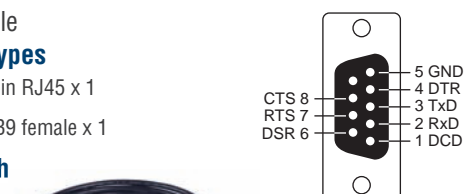
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 female x 1

Cable Length

150 cm



CBL-RJ45SM25-150

Shielded cable

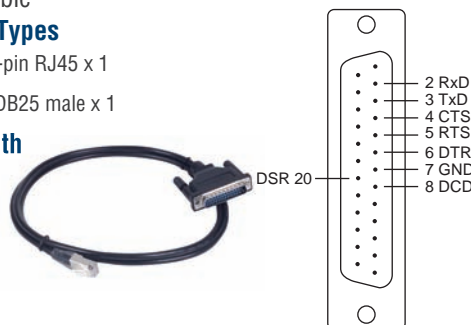
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB25 male x 1

Cable Length

150 cm



CBL-RJ45SM9-150

Shielded cable

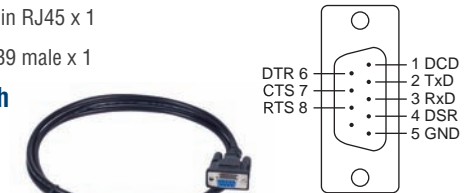
Connector Types

Board-side: 8-pin RJ45 x 1

Device-side: DB9 male x 1

Cable Length

150 cm



Wiring Kits

Wiring Terminals

TB-M9

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 mm²)

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



TB-F9

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-

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 mm²)

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



TB-M25

DB25 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 mm²)

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



TB-F25

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 mm²)

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



P/N: 111100002500

3-pin terminal block

Can be used with these products

Device Servers: NPort 5200/5400

Usage

Power: For connecting to DC power source



P/N: 111100002600

5-pin terminal block

Can be used with these products

Device Servers: NPort 5230/5232, NPort 5430, all NPort IA models

Usage

Data Transmission: For connecting to serial devices



P/N: 111100003300

7-pin terminal block

Can be used with these products

Device Servers: NPort 5230/5232

Usage

Data Transmission: For connecting to serial devices



P/N: 111100002700

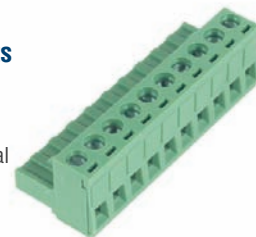
10-pin terminal block

Can be used with these products

Device Servers: All NPort IA models

Usage

Power and Relay: For connecting to dual DC power sources and relay output



Power Jack to Terminal Block Cable

P/N: 919900000900

DB9 male DIN-rail wiring terminal



Specifications

Cable Length: 100±20 mm

Open Wire Length: 7.5±1 mm

RJ45 to DB9 Adaptors

P/N: 9199000093100

RJ45 to DB9 male adaptor

Can be used with these products

NPort 6000, NPort 5000, CN2600, NPort W2150Plus/W2250Plus/W2004



P/N: 9199000093000

RJ45 to DB9 female adaptor

Can be used with these products

NPort 6000, NPort 5000, CN2600, NPort W2150Plus/W2250Plus/W2004



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