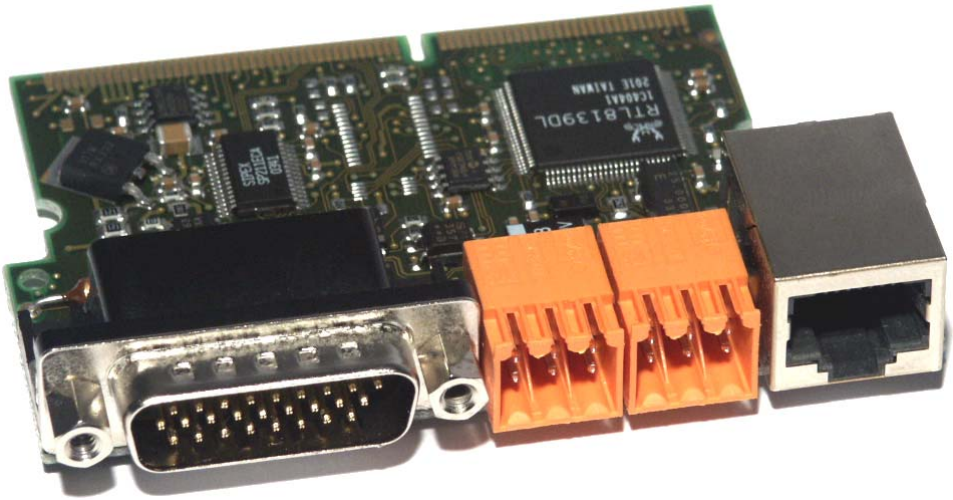
C-IPC Expansion card



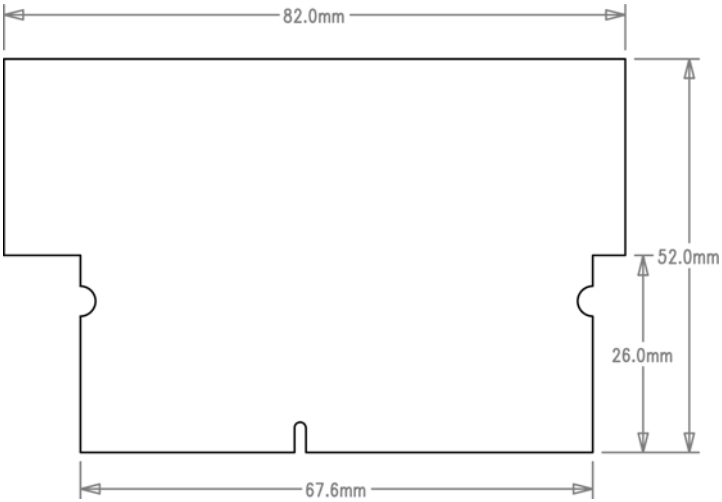
With the expansion card the C-IPC can be expanded with up to 4 further interfaces. The special design allows an easy installation and fixation of the expansion card.

The delivery of the expansion card also includes the corresponding cover and fixing material!

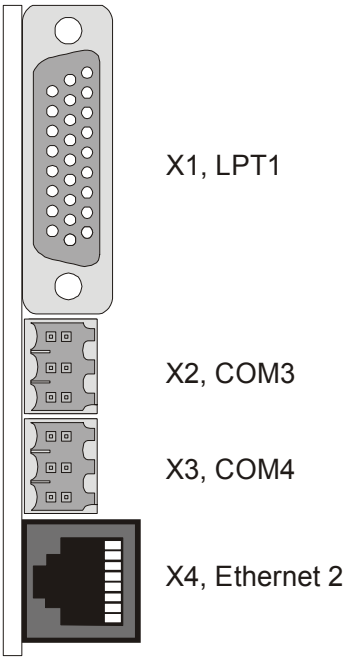
Specification

Periphery connection	via SO-DIMM socket							
Fixing	2 x M2x4 cheese head screw with serrated lock washer DIN 6798-A 2,2							
Standardization	UL (E247993)							
Article numbers (Version)	LPT	COM3			COM4			Ethernet
		RS232	RS4XX	MDB	RS232	RS4XX	TTY	
01-460-011	YES							
01-460-021	YES	YES					YES	
01-460-031	YES	YES					YES	YES
01-460-041				YES				

Mechanical dimensions



Connections

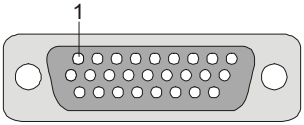


Pin assignment

Expansion card

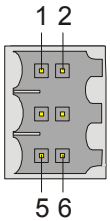
X1: LPT1 (26-pole HD-DSUB plug, angled)

26-pole DSUB plug



Pin	LPT	FDD	Pin	LPT	FDD
1	Data Strobe	n.u.	14	Autofeed	Density Select
2	Data 0	Index	15	Error	Head Select
3	Data 1	Track 0	16	Init	Direction
4	Data 2	Write Protect	17	Select Input	Step
5	Data 3	RData	18	GND	GND
6	Data 4	Disk Change	19	GND	GND
7	Data 5	n.u.	20	GND	GND
8	Data 6	Motor 0	21	GND	GND
9	Data 7	Drive 0	22	GND	GND
10	Acknowledge	Drive 1	23	GND	GND
11	Busy	Motor 1	24	do not connect	(GND)
12	Paper out	WData	25	+5 V	+5 V
13	Select	WGate	26	+5 V	+5 V

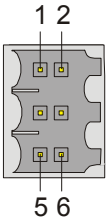
X2: COM 3 (6-pole Weidmüller)



Terminal	RS 232	RS 422	RS485	Multi-Drop bus
1	RxD	TxA	A	n.c.
2	RTS	TxB	B	Comm. Common (GND)
3	TxD	RxA	(A)	DC Power Return (GND)
4	CTS	RxB	(B)	Master Transmit
5	DTR	n.u.	n.u.	+ 34 VDC
6	GND	GND	GND	Master Receive

This table shows all opportunities, the final mounting is specified in table „Specification“!

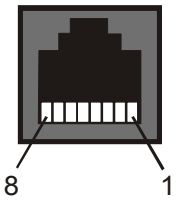
X3: COM 4 (6-pole Weidmüller)



Terminal	RS232	RS 422	RS 485	TTY 20 mA
1	RxD	TxA	A	Tx+
2	RTS	TxB	B	Tx-
3	TxD	RxA	(A)	Rx+
4	CTS	RxB	(B)	Rx-
5	DTR	n.u.	n.u.	20 mA
6	GND	GND	GND	GND

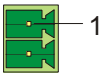
This table shows all opportunities, the final mounting is specified in table „Specification“!

X4: Ethernet 2 (8 pole RJ45)



Pin	Function
1	TD+
2	TD–
3	RD+
4	n.c.
5	n.c.
6	RD–
7	n.c.
8	n.c.

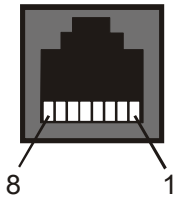
Multi-Drop bus (MDB) supply



Pin	Function
1	+24 V supply
2	GND

Ethernet cable connection

Twisted pair cable connection (expansion card to a HUB)

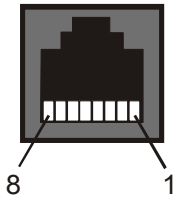


Pin	Function	Cable (both sides)
1	Tx+	Orange
2	Tx-	Orange/white
3	Rx+	Green
4	not assigned	Blue
5	not assigned	Blue/white
6	Rx-	Green/white
7	not assigned	Brown
8	not assigned	Brown/white

Both ends of the network cable have this assignment (not cross-linked).

It's badly recommended to use this assignment, otherwise the impedance of the network cable is incorrect and the maximum cable length of 100 m cannot be reached!

Twisted pair cable connection (expansion card to other Ethernet devices)



Pin	Function (side 1)	Cable (side 1)	Cable (side 2)
1	Tx+	Orange	Green
2	Tx-	Orange/white	Green/white
3	Rx+	Green	Orange
4	not assigned	Blue	Blue
5	not assigned	Blue/white	Blue/white
6	Rx-	Green/white	Orange/white
7	not assigned	Brown	Brown
8	not assigned	Brown/white	Brown/white

At direct connection without HUB the network cable has to be cross-linked. Therefore both ends have a different assignment (Tx/Rx cross-linked).

It's badly recommended to use this assignment, otherwise the impedance of the network cable is incorrect and the maximum cable length of 100 m cannot be reached!

Installation, respectively, removal of the expansion card

Especially at installation of the expansion card the following procedure must be noticed:

- First plug the card **sloping** into the SO-DIMM socket,
- afterwards press the card into the socket clamp
- and finally screw it with the cheese head screw and the serrated lock washer on the periphery!

The removal is executed contrary:

- First screw-off the card from the periphery,
- afterwards **fold the card forward** to free it from the socket clamp
- and finally unplug the card out of the SO-DIMM socket!

Assembly of the cover plate

Put the cover plate vertically on the C-IPC, stick the pins into the cuts and screw on the expansion card.