

CP5512 EXPRESS

Laptop ExpressCard PROFIBUS Communication Card



Introduction:

Nowadays the laptops have eliminated the PCMCIA slot, but adopt the ExpressCard slot. So we especially develop the CP5512 EXPRESS for ExpressCard laptop.

The function of our CP5512 EXPRESS is the totally same as Siemens original CP5512 except they use on different laptop interfaces. It's the isolated PROFIBUS/MPI/PPI/FWL communication card specially for laptop, use iCoupler Magnetic Coupling isolators to replace the optocoupler, with small dimension, wide temperature range, and have anti-lightning and surging protective circuit and resumption of Overcurrent protection circuit on the RS485 interface, all use industrial IC in order to apply to wider temperature range, is used to achieve PROFIBUS/MPI/PPI/FWL communication connection between laptop and SIMATIC.

CP5512 EXPRESS also can be used on PCI-E slot of desktop computer after the PCI-E to ExpressCard converter, the function is same as Siemens CP5611, CP5621.

CP5512 EXPRESS support hot plug and plug and play. Perfect isolation circuit and interface protective circuit make you at ease to use it.

Communication service:

PROFIBUS-DP master station class 1 and 2
PROFIBUS-DP slave and SOFTNET-DP slave
MPI/PPI/FWL communication

S7 communication with SOFTNET-S7

S5-compatible communication (SEND/RECEIVE based on the FDL interface) with SOFTNET-D or SOFTNET-S7

CP5512 EXPRESS is suitable for the following version or above version softwares:

STEP7 V5.2

SOFTNET-S7 V6.1

SOFTNET-DP, SOFTNET-DP slave from V6.1

STEP 7-Micro/WIN from V3.2 SP4

ProTool[®], ProTool/Pro[®] V6.0 SP2

NCM PC from V5.2

SIMATIC PDM V5.2 SP1

Technical Specification:

Transmission rate: 9.6Kbps~12Mbps,the corresponding largest communication distance accord with PROFIBUS standard.

Interface:connect PROFIBUS/MPI/PPI,isolated 9 pin Sub-D connector.

Isolated voltage:1000VDC

Interface protection:have anti-lightning and surging protection($I_{pp}=100A$ 10/700us,4KV) on the RS485 interface.ITU-TK20/21,VDE 0433 standard. $\pm 15KV$ ESD protection. Overcurrent protection with restoration function: RS485 port can withstand up to 60V voltage caused by continuous over-current.

Standard working voltage:3.3 VDC

power: 1.0W

working temperature: -20~+75°C

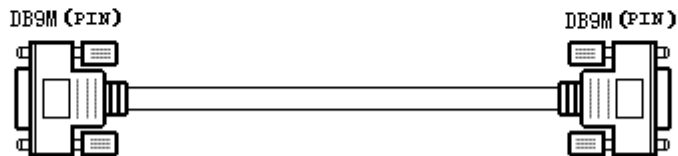
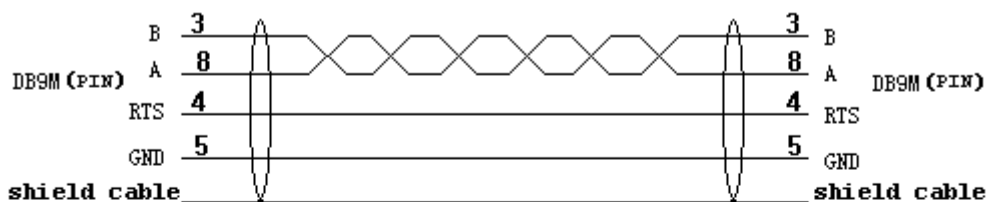
size: adapter:length* width * height(mm): 123×68×30,cable length: 25CM

weight: 150g

Support hardware of CP5512 EXPRESS:

It's different from PC Adapter and PC Adapter USB, CP5512 EXPRESS supports much more hardwares,such as Siemens S7-200/300/400PLC, PPI/MPI/PROFIBUS interface of touch panel, EM277,ET200 and other hardwares with PROFIBUS/MPI/PPI/FWL interface.

It need PROFIBUS cable or MPI cable(Siemens part nr 6ES7 901-0BF00-0AA0) when CP5512 EXPRESS communicates with fieldbus devices.



Communication cable for CP5512/CP5611
Corresponds to Siemens MPI cable: 6ES7 901-0BF00-0AA0

Signal definition of CP5512 EXPRESS profibus Interface(DB9F):

Pin No.	Signal name	Description	Input / Output
1	NC	Unused	-
2	NC	Unused	-
3	B (RXD+/TXD+)	RS485 Signal+	Input/Output
4	RTS_AS	Handshake signal	Input
5	Ground (0V)	Signal Ground	-
6	+5V	5V power 50mA.max.	output
7	NC	Unused	-
8	A (RXD-/TXD-)	RS485 Signal-	Input/Output
9	RTS_PG	Request	Output
Shell	PE	Shield	-

More detailed usage of CP5512 EXPRESS, please visit Siemens technical support site:

<http://support.automation.siemens.com/CN/llisapi.dll?func=cslib.csinfo&lang=en&objid=6GK1551-2AA00&caller=view>

<http://www.siemens.com/automation/service&support>