CP5512

Laptop PROFIBUS 32bit PCMCIA Communication Card

Introduction:

CP5512 is the isolated PROFIBUS/MPI/PPI/FWL communication card specially for laptop, use iCoupler isolators eliminate optocoupler limitations instead of Photoelectric isolation,with small dimension, wide temperature range,and have anti-lightning and surging protective circuit and Overcurrent protection with restoration function 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 insert laptop PCMCIA slot from outside. Its function and Features is the same as Siemens original CP5512(Siemens part nr 6GK1551-2AA00),and have the following new characters.

1. Card and RS485 adapter integrative design, small dimension, use conveniently and have anti-lightning and surging protective circuit on the RS485 interface.

2.Support hot plug, you can plug or unplug the card when the laptop is running. And card and adapter is integrated, so it's not like original CP5512 which exist the hidden trouble that destroy the card when plug or unplug the card from the adapter with current.

3.Support common Express to PCMCIA transition card. You can use it on the Express

slot laptop.

4.Support common PCI to PCMCIA transition card. You can use it on the desk
  computer and the function is the same as Siemens original CP5611 and CP5611 A2.

Communication service:

PROFIBUS-DP master station class 1 and 2
PROFIBUS-DP slave with SOFTNET-DP slave
MPI/PPI/FWL communication
S7 communication with SOFTNET-S7
S5-compatible communication (SEND/RECEIVE based on the FDL interface) with
SOFTNET-DP or SOFTNET-S7

CP5512 can be used with:

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(Ipp=100A
10/700us,4KV) on the RS485 interface.ITU-TK20/21,VDE 0433 standard. ±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℃
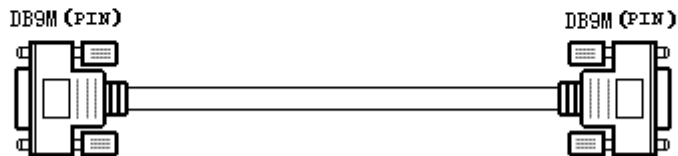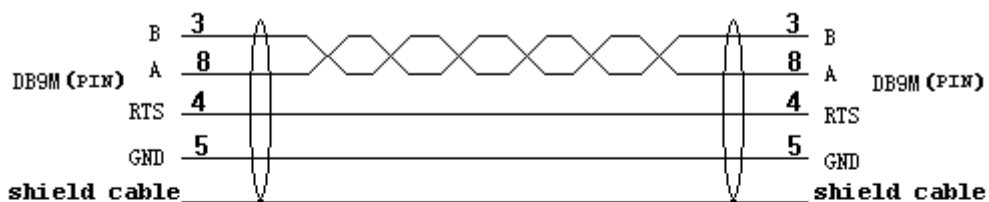size：length* width * height(mm)：130x54x5（DB9F plug height:22mm）
weight：70g

Support hardware of CP5512:

It's different from PC Adapter and PC Adapter USB, CP5512 supports much more hardwares,such as Siemens S7-200/300/400PLC, PPI/MPI/PROFIBUS interface of touch panel, EM277,ET20 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 communicates with fieldbus devices.

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

Signal definition of CP5512 Interface:

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 of CP5512, please visit Siemens technical support site:
http://support.automation.siemens.com/CN/llisapi.dll?func=cslib.csinfo&lang=en&objid=6GK1551-2AA00&caller=view