MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6GK1561-1AA00

PCI PROFIBUS COMMUNICATION PROCESSOR

Used with the applicable SIMATIC NET CP 5611 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens CP 5611 Installation Instructions/Product Information A5E00102070-01; English specifications.

1 Performance and Functions

The CP 5611 module is equipped with a PROFIBUS interface up to 12 MBaud. It is intended for use in programming devices (PGs) and PCs with a PCI bus interface. The additional interface signals for direct coupling to the PLC (programmable logic controller) are supported up to 187.5 kBaud.

The Product

The product comprises the following parts:

- CP 5611 module
- Hardware Installation Instructions in German, English
- Product information bulletin in German, English
- Packing

Hardware Requirements

The CP 5611 module is a plug and play network adapter for devices with a 32–bit PCI bus interface complying with the PCI V2.1 specification. The bus clock rate must not exceed a maximum of 33 MHz. The module has the dimensions of a short PCI module (102 mm x 130 mm).

Note

For the DP mode, at least a 166 MHz Pentium processor or comparable processor is recommended.

Software Requirements

The software for operating the module is not supplied with the product. You can order this from your SIEMENS contact.

5 Technical Specifications

Tabelle 6-1

Dimensions	Short PCI module format (102 mm x 130 mm)
Weight	Approx. 100 g
Module insertion	PCI bus direct plug–in (32–bit)
Bus interface	PCI V2.1, PnP
Electrical Values	
Operating voltage	Safety extra–low voltage (SELV) complying with EN60950
Rated voltage (limit values)	5 VDC (4.75 to 5.25 V)
Current consumption at rated voltage	max. 500 mA
Connector	9-pin sub D female connector with screw locking mechanism.
Type of transmission	RS 485 floating within the SELV limits
Transmission rate	9.6 Kbps to 12 Mbps
Mode on the MPI/DP interface	Floating (interface signals) non–floating (cable shield)

Tabelle 6-1 , continued

Safety	
VDE regulations	VDE 0805=EN60950 and IEC 950
UL/CSA approval	The CP 5611 meets all requirements for additional modules.
Electromagnetic Compatibility (EMC)	
Noise emission Limit class	B complying with EN55022=CISPR 22
Noise immunity on signal lines	+/– 2 kV (complying with IEC 801–5 / IEC 1000–4–5, surge)
Immunity to electrostatic discharge	+/– 6 kV, Contact discharge (complying with IEC 801–2; ESD / IEC 1000–4–2)
Immunity to high–frequency interference	10 V/m at 80% amplitude modulation at 1 kHz, 80 MHz – 1 GHz (complying with IEC 801–3 / ENV 50140) 10 V/m 50% on duration at 900 MHz (complying with ENV 50204) 10 V/m at 80% amplitude modulation at 1 kHz, 10 kHz – 80 MHz (complying with IEC 801–6 / ENV50141)

Tabelle 6-1 , continued

Climatic Conditions	
Temperature	Tested to DIN IEC 68–2–1, DIN IEC 68–2–2
Operation	5 °C to + 40 °C temperature change max. 10 K/h
Storage/transportation	–20 °C to +60 °C temperature change max. 20 K/h
Relative humidity	Tested to DIN IEC 68–2–3
Operation	5% to 80% to 25 °C (no condensation)
Storage/transportation	5% to 95% at 25 °C (no condensation)
Mechanical Conditions	
Vibration	Tested to DIN IEC-2-6)
Operation	10 to 58 Hz; amplitude 0.035 mm 58 to 500 Hz; acceleration 5 m/s^2
Shock	Tested to DIN IEC 68–2–27
Operation	Half sine: 50 m/s^2 (5g), 10 ms

Pinout of the PROFIBUS Port

The sub D socket connector has the following pinout:

Signal Description

Tabelle 6-2

Pin No.	Abbrevia–tion	Meaning	Input/ Output
1	NC	Pin 1 is not connected	–
2	NC (M24)	Pin 2 is not connected With other MPI/DP components, the return wire of the floating 24 V power supply can be applied to this pin.	–
3	LTG_B	Signal line B of the CP 5611 module	Input/ output
4	RTSAS	RTSAS, input signal for MPI/DP bus. The control signal is ’1’ active when the PLC is sending.	Input
5	M5EXT	M5EXT return line (GND) of the 5V supply. The current load of an external consumer connected between P5EXT and M5EXT can be up to a maximum of 90 mA.	Output