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Product information

S7-Compact-PLC

CC307T

(Figure contains optional periphery modules)

(valid from PLC-version CC307T-xxx-**02**)

Changes to older versions of this document

Rev. 01 → **02:** New design line, periphery modules added
Rev. 02 → **03:** Information for disposal of old equipment

Description

S7-Compact-PLC
for 35mm DIN-rail
with 7 periphery slots

Standard configuration:

RS232 with
- free ASCII protocol

RS485 with
- free ASCII protocol
- Modbus RTU
- with switchable terminate resistors for RS485

2x Ethernet (as switch or separated) with
- S7-connection (Put/Get)
- Send/ Receive via TCP and UDP,
- Modbus TCP

CAN
- protocol compatible to
  - CANopen®
  - Layer2 communication
- with switchable terminate resistors for RS485

Micro-SD-card slot
- for SD-cards up to 8GByte

Run/Stop switch

State LEDs for Power, Battery, Error, Run

Inserting stripes
- for Logo and identification (thereby customized adaption possible easy)

Additional configuration: (optional)

Profinet IO Controller

Scope of delivery:
- Grounding terminal
- Technical data sheet

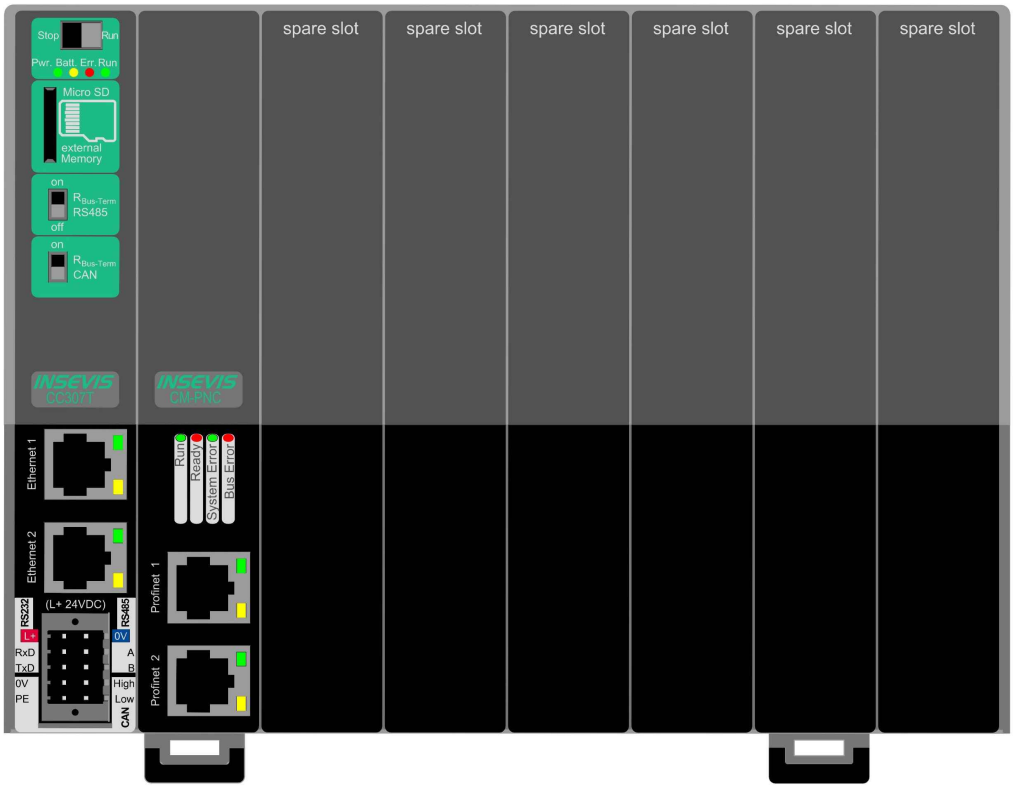
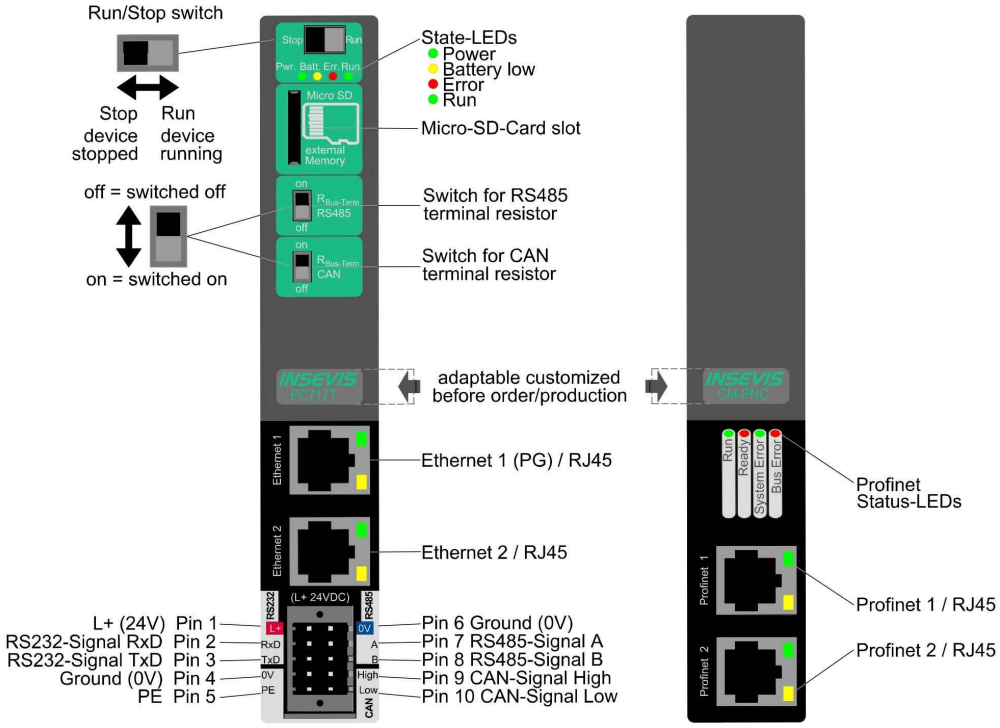


Figure above: View to rear side and connections sides of PC307T-PNC (horizontal use)

Figure below: CPU-connections of all Compact-PLC-devices with periphery slots with CPUs type T and with option Profinet IO Controller on slot 1



Technical data	
Dimensions W x H x D (mm) Cut out W x H (mm) Protection class Weight	161 x 116,5 x 98 35mm DIN rail IP41 ca. 600g
Operating temperature range Storage temperature range	-20°C ... +60°C (without condensation) -30°C ... +80°C
Connection technology	removable connector with 2 bolt flanges (cage clamp technology) for cross section up to max. 1,5mm^2
Load voltage L+	24V DC (11 V ... 30V DC)
Current consumption Power dissipation	150mA ... 1200mA 3,6W (typ.) ... 28,8W (mit Profinet and full of periphery)
Start-up current	< 3A

Technical data	CPU
CPU-type	CPU-T (CC307T)
Working memory / battery backed load memory Load memory Diagnostic buffer	1MB / thereof 512 kByte remanent 8MB 100 entries (all remanent)
Flash external memory	 Micro SD, up to max. 8 GByte (not necessary for S7-program, only for archiving)
OB, FC, FB, DB Lokal data Number of in- and outputs Process image Number of Merkerbytes Number of Taktmerker Number of timer, counter Depth of nesting	each 2.048 32kByte (2kByte per block) in each case 4.096 Byte (32.769 Bit) addressable in each case 4.096 Byte (default set is 128 Byte) 4.096 (remanence adjustable, default set is 0..15) 8 (1 Merkerbyte) in each case 512 (each remanence adjustable, default set is 0) up to 16 code blocks
Real-time clock elapsed hour counter	yes (accumulator-backed hardware clock) 1 (32Bit, resolution 1h)
Program language Program system	STEP 7® - AWL, KOP, FUP, S7-SCL, S7-Graph from Siemens SIMATIC® Manager from Siemens or products compatible to it
Operating system Program unit to reference	compatible to S7-300® from Siemens CPU 315-2DP/PN (6ES7 315-2EH14-0AB0 and firmware V3.1 Siemens)
Serial interfaces (protocols)	COM1: RS 232 (free ASCII) COM2: RS 485 (free ASCII, Modbus-RTU)
Ethernet (protocols)	2x Ethernet: (switch or separated ports): 10/100 MBit with parts of CP343 functionality (RFC1006, TCP, UDP, Modbus-TCP)
CAN (protocols)	CAN-telegrams (Layer 2), compatible to CANopen® master/ slave 10 kBaud ... 1 MBaud
optional interfaces (protocols)	Profinet IO Controller

Onboard periphery	7 slots for INSEVIS-periphery modules (with Profinet-option slot 1 is occupied)
Decentral periphery	- INSEVIS- periphery (with automatic configuration via „ConfigStage“) - diverse external periphery families (Modbus RTU/TCP, CAN) - all CANopen® slaves according to DS401 - all Profibus DP-V0-slaves

Ordering data of devices

Identification	Standard	With Profinet IO Controller
S7-Compact-PLC **CC307T**	CC307T-0-02	CC307T-PNC-02

Ordering data of accessoires (Peripheral modules to be ordered separately as required)

Identification / Order-No.	Identification / Order-No.
Connector 2x5pin (bolt flanges) / E-CONS10-00	Micro SD-card 2GB (external memory) / E-MSD2-00
Micro SD-card 4GB (external memory) / E-MSD4-00	Micro SD-card 8GB (external memory) / E-MSD8-00

Qualified personnel
All devices described in this manual may only be used, built up and operated together with this documentation. Installation, initiation and operation of these devices might only be done by instructed personnel with certified skills, who can prove their ability to install and initiate electrical and mechanical devices, systems and current circuits in a generally accepted and admitted standard.

Manuals, sample programs
Additional documentation by manuals is available as well sample applications at the download area of www.insevis.com in English language for free download.

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Disposal
Do not throw old appliances in the household waste! In the interest of environmental protection, old appliances must be collected separately from unsorted municipal waste. You can find out more about the proper disposal / return of your old appliance at www.insevis.com/disposal.
Attention: The deletion of personal data on the old devices to be disposed of is the responsibility of the end user.

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