

# **Product information S7-Compact-PLC**





(Figure contains optional periphery modules)



(valid from PLC-version CC303T-xxx-02)

Changes to older versions of this document

Rev. 01  $\rightarrow$  02: New design line, periphery modules added Rev.  $02 \rightarrow 03$ : Information for disposal of old equipment

# Description

S7-Compact-PLC for 35mm DIN-rail with 3 periphery slots

# **Standard configuration:**

RS232 with - free ASCII protocol

# RS485 with

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

# 2x Ethernet (as switch

- or separated) with - S7-connection (Put/Get) - Send/ Receive via
- TCP and UDP, - Modbus TCP

# Iviou

- CAN
- protocol compatible to
- CANopen®
- Layer2 communication
- with switchable teminate 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

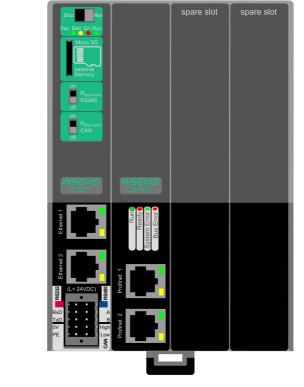
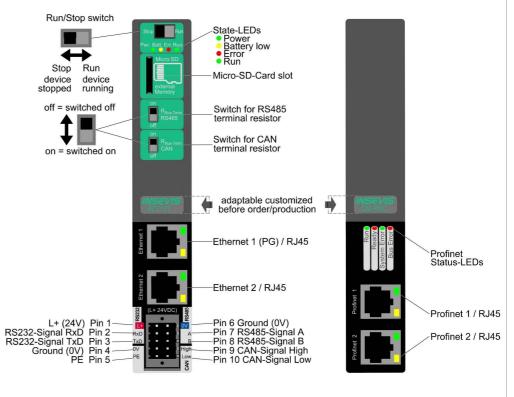


Figure above: View to rear side and connections sides of PC303T-PNC (horizontal use)

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



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Technical data		
Dimensions W x H x D (mm)	47 x 116 x 84	
Cut out W x H (mm)	35mm DIN rail	
Protection class	IP41	
Weight	ca. 500g	
Operating temperature range	-20°C +60°C (without condensation)	
Storage temperature range	-30°C +80°C	
Connection technology	removable connector with 2 bolt flanges (cage clamp technology) for cross section up to max. 1,5mm <sup>2</sup>	
Load voltage L+	24V DC (11 V 30V DC)	
Current consumption	150mA 300mA	
Power dissipation	3,6W (typ.) 7,2W (with Profinet)	
Start-up current	< 3A	
Technical data	CPU	
CPU-type	CPU-T (CC303T)	
Working memory / battery backed load memory	1MB / thereof 512 kByte remanent	
Load memory	8MB	
Diagnostic buffer	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	each 2.048	
Lokal data	32kByte (2kByte per block)	
Number of in- and outputs	in each case 4.096 Byte (32.769 Bit) addressable	
Process image	in each case 4.096 Byte (default set is 128 Byte)	
Number of Merkerbytes	4.096 (remanence adjustable, default set is 015)	
Number of Taktmerker	8 (1 Merkerbyte)	
Number of timer, counter	in each case 512 (each remanence adjustable, default set is 0)	
Depth of nesting	up to 16 code blocks	
Real-time clock	yes (accumulator-backed hardware clock)	
elapsed hour counter	1 (32Bit, resolution 1h)	
Program language	STEP 7 <sup>®</sup> - AWL, KOP, FUP, S7-SCL, S7-Graph from Siemens	
Program system	SIMATIC <sup>®</sup> Manager from Siemens or products compatible to it	
Operating system	compatible to S7-300 <sup>®</sup> from Siemens	
Program unit to reference	CPU 315-2DP/PN (6ES7 315-2EH14-0AB0 and firmware V3.1 Siemens)	
Serial interfaces	COM1: RS 232 (free ASCII)	
(protocols)	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	CAN-telegrams (Layer 2), compatible to CANopen <sup>®</sup>	
(protocols)	master/ slave 10 kBaud 1 MBaud	
optional interfaces	Profinet IO	
(protocols)	Controller	
Onboard periphery	3 slots for INSEVIS-periphery modules (with Profinet-option slot 1 is occupied)	
Decentral periphery	<ul> <li>- INSEVIS- periphery (with automatic configuration via "ConfigStage")</li> <li>- diverse external periphery families (Modbus RTU/TCP, CAN)</li> <li>- all CANopen<sup>®</sup> slaves according to DS401</li> <li>- all Profibus DP-V0-slaves</li> </ul>	

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# Ordering data of devices

Identification	Standard	With Profinet IO Controller
S7-Compact-PLC CC303T	CC303T-0-02	CC303T-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 <u>www.insevis.com/disposal</u>. 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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