

Product Information

S7-Compact-PLC

CC307V



(valid from version CC307V-xxx-**03**)

Changes to older versions of this document

- Rev. 02 → 03:** Description of Profibus-signals made compatible to Siemens-manuals
- Rev. 03 → 04:** New design line, connectors added
- Rev. 04 → 05:** Information for disposal of old equipment
- Rev. 05 → 06:** Link to Security Guideline added

Description

Compact-PLC for
35mm DIN-rail

- **CC307V** with 7 slots
for periphery

Standard configuration:

- **RS232 with**
 - free ASCII-protocol
- **RS485 with**
 - free ASCII-protocol
 - Modbus RTU
 - with switchable terminate resistors for RS485
- **Ethernet with**
 - RFC1006 (S7-Connect-
ion with Put/Get),
 - Send/ Receive via
TCP and UDP,
 - Modbus TCP
- **CAN with**
 - protocol compatible
to CANopen®
 - layer2-communication
 - with switchable terminate
resistors for CAN

- **Micro-SD-slot**
 - for SD-cards up to
8 Gbyte (just to archive
DBs as csv-file, not for
storing program – this is
kept in CPU-flash

Run/Stop-switch

- **Status LEDs** for
Power, Battery, Error, Run

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

optional configuration:

(optional)

- **Profibus DP-Master**
- **Profibus DP-Slave**
- with switchable terminate
resistors for Profibus

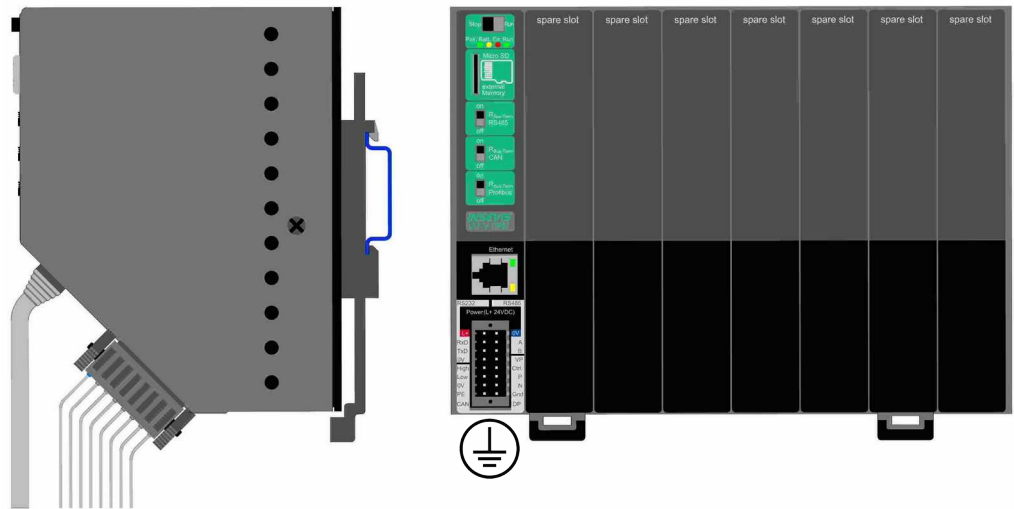


Figure above: Compact-PLC CC307V rear view and view from the side

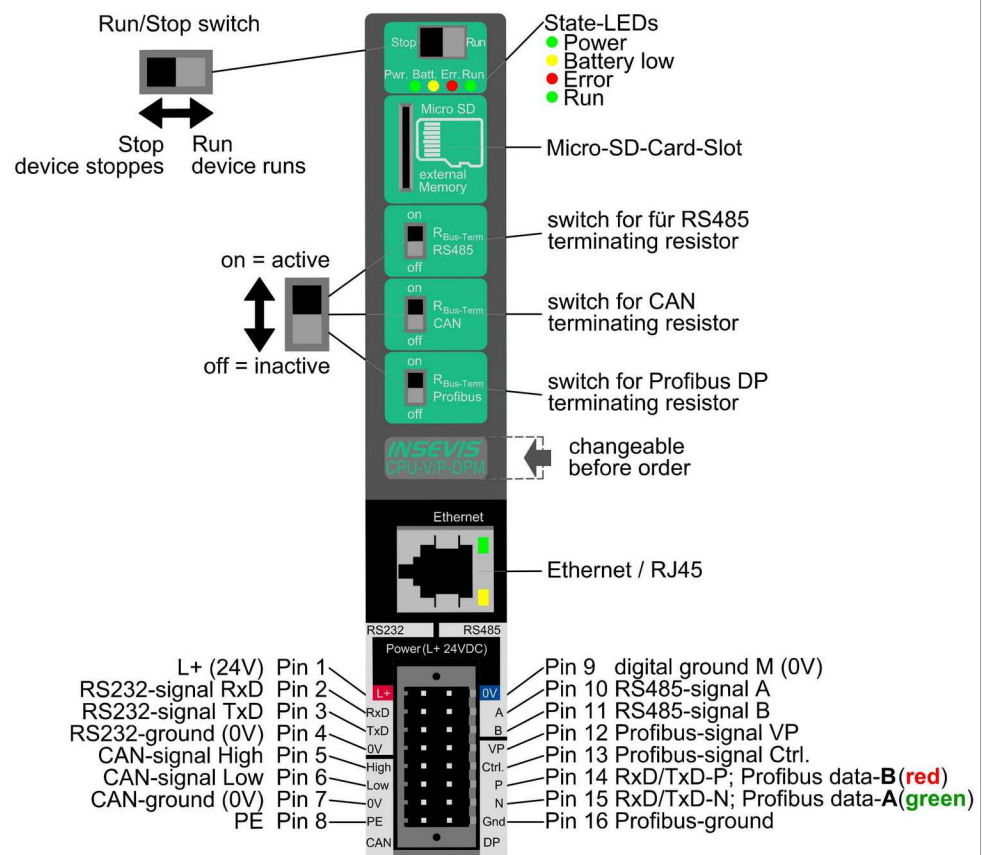


Figure above: Identification of all CPUs of all CompactPLCs devices with periphery slots, with CPU-type V and with Profibus DP Master

Technical data	
Dimensions W x H x D (mm)	161 x 116,5 x 98
Weight	ca. 600g
Mounting	to clip on a 35mm DIN-rail
IP-leak protection class	IP41
Operating temperature range	-20°C ... +60°C (without condensation)
Storage temperature range	-30°C ... +80°C
Connection technology	connector with pin-marked pushers and 2 bolt flanges on side (cage clamp technology) for cross sections up to max. 1,5mm ²
Load voltage L+	24V DC (11 ... 30V DC)
Current consumption	20 mA ... 485 mA
Power dissipation	0,5 W (typ.), 10 W (max.)
Technical data CPU	
CPU-type	Type V (CC307V)
Working memory = battery backed load memory	512kB, thereof 256 kByte remanent data
Diagnostic buffer	100 messages (all remanent)
Internal flash memory	4 MByte
External flash memory	Micro SD, up to max. 8 GByte (not necessary for operation)
OB, FC, FB, DB	each 1.024
Lokal data	32kByte (2kByte per block)
Number of in- and outputs	in each case 2.048 Byte (16.384 Bit) addressable
Process image	in each case 2.048 Byte (default set is 128 Byte)
Number of Merkerbytes	2.048 (remanence adjustable, default set is 0..15)
Number of Taktmerker	8 (1 Merkerbyte)
Number of timer, counter	in each case 256 (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® - AWL, KOP, FUP, S7-SCL, S7-Graph from SIEMENS
Program system	SIMATIC® Manager from SIEMENS or compatible products
Operating system	compatible to S7-300® from Siemens
Program unit to reference	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)	Ethernet: 10/100 Mbit with CP343 functionality (RFC1006, TCP, UDP, Modbus-TCP)
CAN (protocols)	CAN-Telegrams (Layer 2), compatible to CANopen® Master 10 kBaud ... 1 MBaud
Profibus (protocols)	Profibus DP V0 master/ slave 9,6kBaud ... 12 MBaud
Onboard periphery	7 free slots for INSEVIS-periphery modules
Decentral periphery	- INSEVIS- Periphery (with automatic configuration via „ConfigStage“) - all CANopen® Slaves according to DS401 - all Profibus DP-V0-slaves - diverse external periphery families

Ordering data devices

Identification	Standard	with Profibus DP Master	with Profibus DP Slave
S7-Compact-PLC CC307V	CC307V-0-03	CC307V-DPM-03	CC307V-DPS-03

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

Identification / Order-No.	Identification / Order-No.
Connector 2x8pin (bolt flanges) / E-CONS16-00	Micro SD-card 2GB (external memory) / E-MSD2-00
Profibus-adapter for 12MBaud-nets / E-AD-DP12	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.

Copyright

This and all other documentation and software, supplied or hosted on INSEVIS web sites to download are copyrighted. Any duplicating of these data in any way without express approval by INSEVIS Vertriebs GmbH is not permitted. All property and copy rights of theses documentation and software and every copy of it are reserved to INSEVIS Vertriebs GmbH.

Trade Marks

INSEVIS refers that all trade marks of particular companies used in own documentation are reserved trade marks are property of the particular owners and are subjected to common protection of trade marks.

Disclaimer

All technical details in this documentation were created by INSEVIS with highest diligence. Anyhow mistakes could not be excluded, so no responsibility is taken by INSEVIS for the complete correctness of this information. This documentation will reviewed regularly and necessary corrections will be done in next version. With publication of this data all other versions are no longer valid.

Security Guideline

A guide on how to use this product to ensure compliance with the Cyber Resilience Act (CRA) can be found on the INSEVIS website at: [INSEVIS Security-Guideline](https://www.insevis.com/disposal) or on request at info@insevis.de.

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.