Ethernet connection

Battery compartment

Labelling area

Status LEDs

PC/104 interface

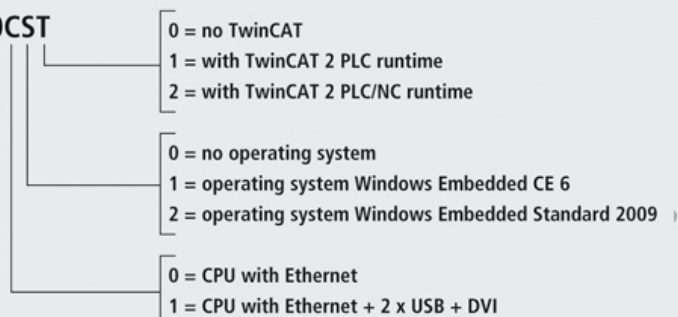Compact Flash insert

Ejector

CX1010 | Basic CPU module

The CX1010 CPU module is the basic module of the CX system. It comprises the CPU and the internal flash memory in two implementation levels and offers the option to operate an additional memory medium in Compact Flash format II. An Ethernet interface is part of the basic configuration. All other CX family components can be connected via the PC/104 interface that is available on both sides. The CPU module can be equipped with different hardware and software options: the operating system can be Windows Embedded CE 6 or Windows Embedded Standard 2009.

The basic configuration of the CX1010 includes a 128 MB Compact Flash card. The TwinCAT 2 automation software transforms a CX1010 system into a powerful PLC and Motion Control system that can be operated with or without visualisation. Further system interfaces or fieldbus connections can be added to the basic CPU module. The passive cooling module is included in the scope of supply. The CPU module requires a CX1100 type power supply module.

The order identifier of the basic CPU module is derived as follows:

```
CX1010-0CST
              0 = no TwinCAT
              1 = with TwinCAT 2 PLC runtime
              2 = with TwinCAT 2 PLC/NC runtime

              0 = no operating system
              1 = operating system Windows Embedded CE 6
              2 = operating system Windows Embedded Standard 2009

              0 = CPU with Ethernet
              1 = CPU with Ethernet + 2 x USB + DVI
```

Since not all combinations make sense, the table "Ordering information" contains a breakdown of the permissible combinations.

Technical data	CX1010
Processor	compatible with Pentium® MMX, clock frequency 500 MHz
Flash memory	128 MB Compact Flash card (optionally expandable)
Internal main memory	256 MB DDR RAM (not expandable)
Interfaces	1 x RJ45 (Ethernet), 10/100 Mbit/s
Diagnostics LED	1 x power, 1 x LAN speed, 1 x LAN activity, TC status, 1 x flash access
Expansion slot	1 x Compact Flash type II insert with ejector
Clock	internal battery-backed clock for time and date (battery exchangeable)
Operating system	Microsoft Windows Embedded CE 6 or Microsoft Windows Embedded Standard 2009
Control software	TwinCAT 2 PLC runtime or TwinCAT 2 NC PTP runtime
System bus	16 bit ISA (PC/104)
I/O connection	via power supply module (E-bus, K-bus, K-bus/IP-Link)
Power supply	via system bus (through CX1100-xxxx power supply modules)
Max. power loss	8 W (including the system interfaces CX1010-N0xx)
Dimensions (W x H x D)	58 mm x 120 mm x 91 mm
Weight	approx. 355 g

Operating/storage temperature	0…+50 °C/-25…+85 °C						
Relative humidity	95 %, no condensation						
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27						
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4						
Protection class	IP 20						
Approvals	CE, UL						

Ordering information	DVI/USB	no operating system	Windows Embedded CE 6	Windows Embedded Standard 2009	no TwinCAT	TwinCAT 2 PLC runtime	TwinCAT 2 NC PTP runtime
CX1010-0000	–	x	–	–	x	–	–
CX1010-0010	–	–	x	–	x	–	–
CX1010-0011	–	–	x	–	–	x	–
CX1010-0012	–	–	x	–	–	x	x
CX1010-0020	–	–	–	x*	x	–	–
CX1010-0021	–	–	–	x*	–	x	–
CX1010-0022	–	–	–	x*	–	x	x
CX1010-0100	x	x	–	–	x	–	–
CX1010-0110	x	–	x	–	x	–	–
CX1010-0111	x	–	x	–	–	x	–
CX1010-0112	x	–	x	–	–	x	x
CX1010-0120	x	–	–	x*	x	–	–
CX1010-0121	x	–	–	x*	–	x	–
CX1010-0122	x	–	–	x*	–	x	x

Accessories	
CX1900-00xx	Optionally expandable memory ex factory. Instead of 128 MB Compact Flash card: 1, 2, 4 and 8 GB Compact Flash card
CX1900-00xx	Aditionally expandable memory: 1, 2, 4 and 8 GB Compact Flash card
CX1900-001x	Formatting a Compact Flash card (bootable)
CX1900-0200	Universal plastic labels (5 x 15 mm) suitable for the premoulded spots on the CX components

*CX1010 systems with Microsoft Embedded Standard 2009 require Compact Flash with a capacity of at least 2 GB (must be ordered separately).