

CX1030 | Basic CPU module

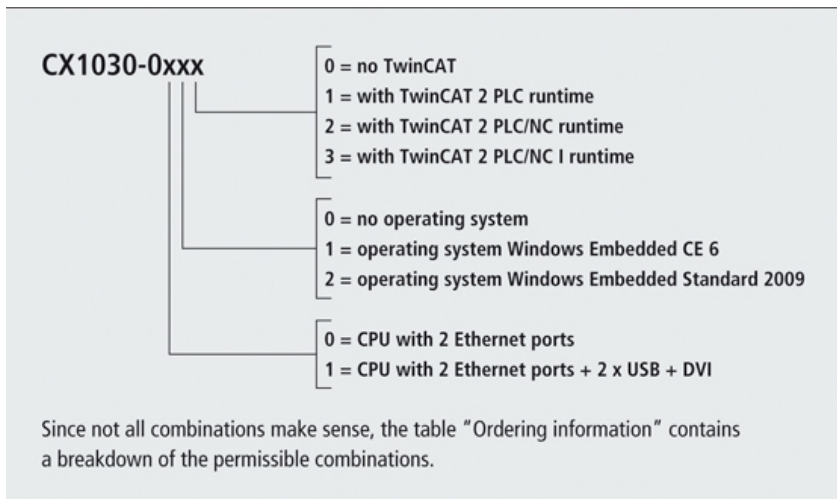
The CX1030 basic CPU module offers Pentium® M power on the DIN rail. The CX1030 has a 1.8 GHz Intel® Pentium® M CPU. The CPU is cooled via the cooling module and an easily exchangeable fan cartridge located on the underside of the housing. The fan speed can be read via software and can therefore be monitored.

In addition to the CPU and the chipset, the CX1030 module also contains the RAM, which is available in different sizes. The controller boots from the Compact Flash. The basic configuration of the CX1030 includes a 128 MB Compact Flash card and two Ethernet RJ45 interfaces. These are connected to an internal switch and offer a simple option for creating a line topology without the need for additional Ethernet Switches. All other CX family components can be connected via the PC/104 interface that is available on both sides. The passive cooling module is included in the scope of supply.

The operating system can be Windows Embedded CE 6 or Windows Embedded Standard 2009. The TwinCAT 2 automation software transforms a CX1030 system into a powerful PLC and Motion Control system that can be used with or without visualisation. In contrast to the CX1010, the CX1030 can also be used for interpolating axis movements with TwinCAT 2 NC I.

Further system interfaces or fieldbus connections can be added to the basic CPU module. The CPU module requires a CX1100-001x type power supply module. All CX1500 fieldbus modules and all CX1100-001x power supply units from the CX series can be used in combination with the CX1030.

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



Technical data	CX1030
Processor	Intel® Pentium® M, 1.8 GHz clock frequency
Flash memory	128 MB Compact Flash card (optionally expandable)
Internal main memory	256 MB DDR RAM (expandable to 512 MB, 1 GB)
Interfaces	2 x RJ45 (Ethernet, internal switch), 10/100 Mbit/s
Cooling	cooling module + fan cartridge featuring speed control with double ball bearing fans, easily replaceable
Diagnostics LED	1 x power, 2 x LAN link/activity, TC status, 1 x flash access
Expansion slot	1 x Compact Flash type I+II insert with eject mechanism
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, NC PTP runtime, NC I 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 CX1100-0012 [K-bus], CX1100-0013 [K-bus, IP-Link], CX1100-014 [E-bus] power supply module)
Max. power loss	32 W (including CX1030-N0xx system interfaces)
Dimensions (W x H x D)	96 mm x 112 mm x 99 mm
Weight	approx. 580 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	TwinCAT 2 NC I runtime
CX1030-0000	–	X	–	–	X	–	–	–
CX1030-0010	–	–	X	–	X	–	–	–
CX1030-0011	–	–	X	–	–	X	–	–
CX1030-0012	–	–	X	–	–	X	X	–
CX1030-0013	–	–	X	–	–	X	X	X
CX1030-0100	X	X	–	–	X	–	–	–
CX1030-0110	X	–	X	–	X	–	–	–
CX1030-0111	X	–	X	–	–	X	–	–
CX1030-0112	X	–	X	–	–	X	X	–
CX1030-0113	X	–	X	–	–	X	X	X
CX1030-0020	–	–	–	X*	X	–	–	–
CX1030-0021	–	–	–	X*	–	X	–	–
CX1030-0022	–	–	–	X*	–	X	X	–
CX1030-0023	–	–	–	X*	–	X	X	X
CX1030-0120	X	–	–	X*	X	–	–	–
CX1030-0121	X	–	–	X*	–	X	–	–
CX1030-0122	X	–	–	X*	–	X	X	–
CX1030-0123	X	–	–	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	Additionally 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

*CX1030 systems with Microsoft Embedded Standard 2009 require Compact Flash with a capacity of at least 2 GB (must be ordered separately).