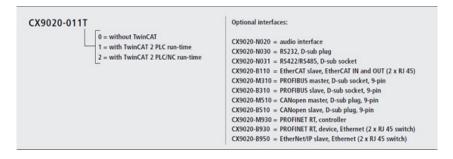


i CX9020 | Basic CPU module

The CX9020 is a compact, DIN rail-mountable Ethernet control system with 1 GHz ARM Cortex™ A8 CPU. The connection for the Beckhoff I/O systems is directly integrated into the CPU module. The unit offers automatic bus system identification (K-bus or E-bus) and independently switches in the corresponding mode. The CX9020 comprises the CPU with two microSD card slots, the internal RAM and 128 kB NOVRAM as non-volatile memory. The basic configuration also includes two switched Ethernet RJ 45 interfaces, four USB-2.0 interfaces and a DVI-D interface. The RJ 45 interfaces are connected to an internal switch and offer a simple option for creating a line topology without the need for additional Ethernet switches. The operating system is Microsoft Windows Embedded Compact 7. TwinCAT 2 automation software transforms a CX9020 system into a powerful PLC and Motion Control system that can be operated with or without visualisation. Optionally, the unit can be ordered with a fieldbus, serial or audio interface.

The extended operating temperature range between -25 and +60 °C enables application in climatically demanding situations.

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



Technical data	CX9020		
Processor	ARM Cortex™-A8, 1 GHz		
Flash memory	256 MB microSD (optionally expandable), 2 x microSD card slot		
Internal main memory	1 GB DDR3 RAM		
Persistent memory	128 KB NOVRAM integrated		
Interfaces	2 x RJ 45 (Ethernet, internal switch), 10/100 Mbit/s, DVI-D, 4 x USB 2.0, 1 x optional interface		
Diagnostics LED	1 x power, 1 x TC status, 2 x flash access, 2 x bus status		
Clock	internal battery-backed clock for time and date (battery exchangeable)		
Operating system	Microsoft Windows Embedded Compact 7		
Control software	TwinCAT 2 PLC runtime or TwinCAT 2 NC PTP runtime		
Power supply	24 V DC (-15 %/+20 %)		
Dielectric strength	500 V (supply/internal electronics)		
NOVRAM	128 kbytes		
Current supply I/O terminals	2 A		
Max. power loss	5 W (including the system interfaces)		
Dimensions (W x H x D)	85 mm x 100 mm x 91 mm		
Operating/storage temperature	-25+60 °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		

Ordering information	no TwinCAT	TwinCAT 2 PLC runtime	TwinCAT 2 NC runtime
CX9020-0110	Х	-	-
CX9020-0111	-	Х	-
CX9020-0112	_	-	Х

Product announcement CX9020-011T, CX9020-N0xx, CX9020-x310, CX9020-x510, CX9020-B110: available CX9020-x930, CX9020-B950: estimated market release 4th quarter 2013