

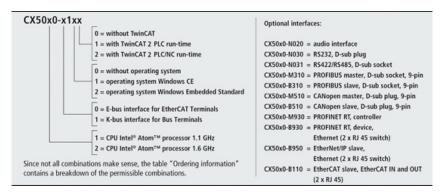
i CX5010, CX5020 | Embedded PC series with Intel® Atom™ processor

The CX5010 and CX5020 are Embedded PCs from the CX5000 series based on Intel® Atom™ processors and differ only by the CPU version. The CX5010 has a 1.1 GHz Intel® Atom™ Z510 processor, while the CX5020 has a 1.6 GHz Intel® Atom™ Z530 processor. Apart from the clock speed, the two processors also differ by the fact that the Z530 features hyperthreading technology, i.e. it has two virtual CPU cores for more effective execution of software.

Depending on the installed TwinCAT runtime environment, the CX5010/ CX5020 can be used for the implementation of PLC or PLC/Motion Control projects (with or without visualisation).

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

The order identifier of the CX5000 devices is derived as follows:



Technical data	CX5010-x1xx	CX5020-x1xx			
Processor	processor Intel® Atom™ Z510, 1.1 GHz clock frequency	processor Intel® Atom™ Z530, 1.6 GHz clock frequency			
Flash memory	64 MB Compact Flash card (optionally extendable)				
Internal main memory	512 MB RAM (internal, not expandable) 512 MB RAM (optionally 1 GB installed ex factory				
Persistent memory	integrated 1-second UPS (1 MB on Compact Flash card)				
Interfaces	2 x RJ 45, 10/100/1000 Mbit/s, DVI-D, 4 x USB 2.0, 1 x optional interface				
Diagnostics LED	1 x power, 1 x TC status, 1 x flash access, 2 x bus status				
Clock	internal battery-backed clock for time and date (battery exchangeable)				
Operating system	Microsoft Windows CE or Microsoft Windows Embedded Standard				
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)				
Current supply I/O terminals	2 A				
Max. power loss	12 W (including the system interfaces) 12.5 W (including the system interfaces)				
Dimensions (W x H x D)	100 mm x 100 mm x 91 mm				
Operating/storage temperature	-25+60 °C/-40+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	
TC3 performance class	performance (40); please see here for an overview of all the TwinCAT 3 performance classes	

Ordering information	E- bus	K- bus	Win CE	Windows Embedded Standard	TwinCAT 2 PL runtime	C TwinCAT 2 NC runtime
CX5010-0100	Х	-	-	-	-	-
CX5010-0110	х	_	Х	_	-	_
CX5010-0111	х		х	-	Х	-
CX5010-0112	х	_	Х	_	Х	Х
CX5010-0120	х	_	-	x*	-	_
CX5010-0121	х	_	-	х*	х	-
CX5010-0122	х	_	_	х*	х	Х
CX5010-1100	_	х	-	-	-	-
CX5010-1110	-	х	Х	_	-	_
CX5010-1111	-	х	Х	_	х	_
CX5010-1112	-	х	Х	_	Х	Х
CX5010-1120	-	х	_	х*	_	_
CX5010-1121	-	х	-	x*	Х	_
CX5010-1122	-	х	-	x*	Х	Х
CX5020-0100	х	_	_	_	-	_
CX5020-0110	х	_	Х	_	-	_
CX5020-0111	х	_	Х	_	х	_
CX5020-0112	Х	_	Х	_	Х	Х
CX5020-0120	X	_	_	x*	-	_
CX5020-0121	X	_	-	х*	Х	-
CX5020-0122	х	_	_	х*	Х	Х
CX5020-1100	_	X	_	_	-	_
CX5020-1110	-	х	Х	_	-	_
CX5020-1111	-	х	Х	-	х	-
CX5020-1112	-	х	х	_	х	Х
CX5020-1120	-	х	-	х*	-	-
CX5020-1121	-	х	-	х*	х	-
CX5020-1122	-	х	-	х*	х	Х
Options						
CX1900-0204	1 GB DDR2 F	RAM for CX5020, ins	stead of 512 MB DDR2 F	RAM; pre-assembled	ex factory	
CX1800-0400	Windows Embedded Standard 7 E instead of Windows XPe; requires at least 1 GB RAM and 4 GB Compact Flash;					

Options	
CX1900-0204	1 GB DDR2 RAM for CX5020, instead of 512 MB DDR2 RAM; pre-assembled ex factory
CX1800-0400	Windows Embedded Standard 7 E instead of Windows XPe; requires at least 1 GB RAM and 4 GB Compact Flash; supported devices: CX5020
CX1800-0401	Windows Embedded Standard 7 P instead of Windows XPe; requires at least 1 GB RAM and 4 GB Compact Flash; supported devices: CX5020

Product announcement	CX50x0-x1xx, CX50x0-N0xx, CX50x0-x310, CX50x0-x510, CX50x0-B110: available CX50x0-x930, CX50x0-B950: estimated market release 4th quarter 2012

^{*}CX50x0 systems with Microsoft Embedded Standard require Compact Flash with a capacity of at least 2 GB (must be ordered separately).