



CX5340 | Embedded PC with Intel Atom® x6425RE



Image similar, may contain optional accessories

i **Product status:** regular delivery

The CX5340 is an embedded PC based on an x6425RE Intel Atom® processor with 1.9 GHz (quad-core) and 8 GB LPDDR4 RAM. The basic equipment includes two independent Gigabit-capable Ethernet interfaces as well as four USB 3.1 and one DisplayPort interface. A wide range of additional connection options or gateway functions are available thanks to the optional interface and I/O level, which can consist of E-bus or K-bus terminals and can be fitted ex factory. A system module or fieldbus module from the CX2000 series can be plugged in via the multi-pole connection on the left-hand side of the device. Although the total number of plug-in modules is limited to one, two additional Gigabit-Ethernet interfaces or four additional USB interfaces or another fieldbus interface can also be implemented in this way, for example. The CX5340 is characterized by an internally electrically isolated power supply unit, built-in 1-second UPS, and low overall power consumption and fanless cooling.

Depending on the installed TwinCAT runtime environment, the device can be used for the implementation of PLC or PLC/motion control projects (with or without visualization). Motion control applications with interpolating axis motions can also be executed. The extended operating temperature range from -25...+60°C allows use in climatically demanding applications.

Product information

Technical data

Technical data	CX5340
Processor	Intel Atom® x6425RE, 1.9 GHz

Number of cores	4
Flash memory	slot for CFast card and microSD card, cards not included
Main memory	8 GB LPDDR4 RAM (internal, not expandable)
1-second UPS	integrated (1 MB on CFast card)
Interfaces	2 x RJ45 10/100/1000/2500 Mbit/s, 1 x DisplayPort, 4 x USB 3.1, 1 x optional interface
Cooling	passive
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	Windows 10 IoT Enterprise 2021 LTSC, Windows 11 IoT Enterprise 2024 LTSC, TwinCAT/BSD
Control software	TwinCAT 3 runtime (XAR)
I/O connection	E-bus or K-bus, automatic recognition
Power supply	24 V DC (-15%/+20%), electrically isolated
Max. power consumption	18 W
Max. power consumption (with loading UPS)	34 W
Max. power consumption E-bus/K-bus	10 W (5 V/max. 2 A)
Weight	approx. 1195 g
Dimensions (W x H x D)	142 mm x 100 mm x 92 mm
Relative humidity	95%, no condensation
Operating temperature	-25...+60°C
Storage temperature	-40...+85°C
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 rating	IP20
Approvals/markings	CE, UL
TwinCAT 3 platform level	Performance Plus (50); please see here for an overview of all the TwinCAT 3 platform level

Ordering information

S = operating system options

0 = no operating system

2 = Windows 11 IoT Enterprise 2024 LTSC 64 Bit

8 = TwinCAT/BSD

9 = Windows 10 IoT Enterprise 2021 LTSC 64 Bit

T = TwinCAT software licenses

0 = no TwinCAT

5 = equipped with TwinCAT 3 runtime (XAR), no licenses included

CX53x0-0xST

Ordering information

CX5340-0100	CPU module, no operating system, no TwinCAT
CX5340-0185	CPU module, TwinCAT/BSD, TwinCAT 3 runtime (XAR), no licenses included
CX5340-0190	CPU module, Microsoft Windows 10 IoT Enterprise 2021 LTSC, 64 bit, no TwinCAT
CX5340-0195	CPU module, Microsoft Windows 10 IoT Enterprise 2021 LTSC, 64 bit, TwinCAT 3 runtime (XAR), no licenses included
CX5340-0220	CPU module, Microsoft Windows 11 IoT Enterprise 2024 LTSC, 64 bit, no TwinCAT (product announcement estimated market release 2 nd quarter 2025)
CX5340-0225	CPU module, Microsoft Windows 11 IoT Enterprise 2024 LTSC, 64 bit, TwinCAT 3 runtime (XAR), no licenses included (product announcement estimated market release 2 nd quarter 2025)

TwinCAT/BSD requires a CFast flash card with a minimum capacity of 20 GB

Windows 10 IoT Enterprise requires a CFast flash card with a minimum capacity of 40 GB.

TwinCAT 3 runtime (XAR) is preinstalled, without licenses. Please order TwinCAT 3 licenses separately from the TwinCAT 3 Price List.

Options

Optional interfaces	
<u>CX5340-N010</u>	DVI-D interface, additional DVI-D port for clone or extended display mode. Is not supported by TwinCAT/BSD. (product announcement estimated market release 2 nd quarter 2025)
<u>CX5340-N011</u>	DisplayPort interface, additional DisplayPort for clone or extended display mode. Is not supported by TwinCAT/BSD.
<u>CX5340-N020</u>	audio interface, 3 x 3.5 mm jack sockets, Line In, Mic In, Line Out or 5.1 Surround (product announcement estimated market release 2 nd quarter 2025)
<u>CX5340-N030</u>	RS232 interface, D-sub plug, 9-pin (RXD, TXD, RTS, CTS)
<u>CX5340-N031</u>	RS485 interface, D-sub socket, 9-pin, configuration as an end point, without echo, termination on
<u>CX5340-N031-0001</u>	RS485 interface, D-sub socket, 9-pin, configuration as an end point, with echo, termination on
<u>CX5340-N031-0002</u>	RS485 interface, D-sub socket, 9-pin, configuration as drop point, without echo, termination off
<u>CX5340-N031-0003</u>	RS485 interface, D-sub socket, 9-pin, configuration as drop point, with echo, termination off
<u>CX5340-N031-0004</u>	RS422 interface, D-sub socket, 9-pin, configuration as full duplex end point, termination on
<u>CX5340-M112</u>	2 x EtherCAT master interface
<u>CX5340-B110</u>	EtherCAT slave interface, EtherCAT IN and OUT (2 x RJ45)
<u>CX5340-M310</u>	PROFIBUS master interface, D-sub socket, 9-pin
<u>CX5340-B310</u>	PROFIBUS slave interface, D-sub socket, 9-pin
<u>CX5340-M510</u>	CANopen master interface, D-sub plug, 9-pin
<u>CX5340-B510</u>	CANopen slave interface, D-sub plug, 9-pin

[CX5340-M910](#)

Ethernet (2 x RJ45 switch), expandable for real-time protocols, e.g. PROFINET, EtherNet/IP™, BACnet/IP

Accessories

Accessories	
<u>CX1900-0132</u>	16 GB microSD card
<u>CX2900-0026</u>	20 GB CFast card, 3D flash, extended temperature range (only for Windows CE or TwinCAT/BSD operating systems)
<u>CX2900-0038</u>	40 GB CFast card, 3D flash, extended temperature range
<u>CX2900-0040</u>	80 GB CFast card, 3D flash, extended temperature range
<u>CX2900-0042</u>	160 GB CFast card, 3D flash, extended temperature range
<u>CX2900-0044</u>	320 GB CFast card, 3D flash, extended temperature range
<u>CX2900-0101</u>	Housing locking clips (black) for the CX52x0, CX53x0, CX56x0 and CX20xx series 10 locking pin sets (each set consisting of two pieces)
<u>CX2900-0102</u>	Cover for left-side module bus connector, 5 pieces
<u>CX2900-0108</u>	Logo strips for CX5xxx, transparent for individual labeling, package contents 20 units
<u>C9900-Z468</u>	Adapter cable DisplayPort to DVI, 40 cm
<u>C9900-K530,-K552,-K553,-K554</u>	USB cable, shielded, PVC, 1 x 2 x 28AWG + 2C 20AWG, fixed installation, black, USB A, plug, straight, male, 4-pin – USB B, plug, straight, male, 4-pin
<u>C9900-K569,-K570,K577</u>	USB cable, shielded, PVC, 2 x 2 x AWG28 + 1 x 2 AWG28 + 1 x 2 x AWG24, fixed installation, black, USB A, plug, straight, male, 9-pin – USB B, plug, straight, male, 9-pin
<u>ZK1090-9191-0xxx</u>	RJ45, plug, straight, male, 8-pin – RJ45, plug, straight, male, 8-pin
<u>ZK1093-9191-0xxx</u>	RJ45, plug, straight, male, 8-pin – RJ45, plug, straight, male, 8-pin
<u>C9900-K780...K783,-K820</u>	Display cable, shielded, PVC, fixed installation, black, DVI-D, plug, straight, male, 24 + 1-pin – DisplayPort, plug, straight, male, 20-pin
<u>BZ1xxx</u>	100 contact labels, various colors, pre-printed
<u>BZ2xxx</u>	100 contact labels, various colors, blank