

Embedded PC series CX and EtherCAT gateway

DIN rail mounted controllers with scalable performance.

The Beckhoff embedded PC series combines the best of both worlds: Industrial PC and hardware PLC. The modular design allows for a flexible combination of interfaces like CANopen NMT master and NMT slave, local and remote I/Os, Ethernet, USB, DVI and VGA, EIA-232 (RS-232) and so forth. The TwinCAT automation software turns the CX embedded PC into a powerful PLC with up to four tasks and an NC for several servo axis. Even special functions such as flying saw, electronic gearbox and cam plate can be realised. The embedded PC thus becomes a controller that covers PLC, motion control and visualisation tasks with a single hardware. Under Windows CE.NET, thanks to the real-time capability of the operating system, user tasks written in high level languages can be processed in real-time in parallel with TwinCAT.

The CX1500-M510 (master field-bus connection) and the EL6751 (EtherCAT terminal) CANopen NMT masters support all features of the FC5101 CANopen PCI card. The flexibility of the CANopen implementation allows one to connect and control almost any CANopen NMT slave device: the CX Embedded PC family are versatile and efficient CANopen controller.

For CANopen slave functionality there are the CX1500-B510 (slave field-bus connection) and the EL6751-0010 (EtherCAT terminal) interfaces. They also support all CANopen communication types. Several CANopen and other field-bus interfaces can be connected to one CX system.

Local I/O on the devices is provided by the bus terminal or EtherCAT terminal series.

www.beckhoff.com/Embedded-PC

Contact

□

Beckhoff Automation GmbH

Eiserstr. 5
DE-33415 Verl

Email: info@beckhoff.com
Phone: +49-5246-963-0
Fax: +49-5246-963-198
Web: <http://www.beckhoff.com>

Technical contact

Beckhoff Automation GmbH
Office Nuremberg
Martin Rostan
Ostendstr. 196
DE-90482 Nuremberg

Phone: +49-911-5405611
Fax: +49-911-5405629
Email: nuernberg@beckhoff.com

Austria

Beckhoff Automation GmbH
Hauptstr. 4
AT-6706 Bürs

Phone: +43-5552-688130
Fax: +43-5552-6881318
Email: info@beckhoff.at
URL: www.beckhoff.at

China

Beckhoff Automation (Shanghai) Co., Ltd.
5th Floor, No. 163 Jiang Chang San Road
Shanghai Shibei Industrial New Zone
CN-200436 Shanghai

Phone: +86-21-6631-2666
Fax: +86-21-6631-5696
Email: info@beckhoff.com.cn
URL: www.beckhoff.com.cn

Finland, Estonia

Beckhoff Automation Oy
P.O. Box 23
Kankurinkatu 4-6
FI-05801 Hyvinkää

Phone: +358-20-7423800
Fax: +358-20-7423801
Email: info@beckhoff.fi
URL: www.beckhoff.fi

Italy

Beckhoff Automation S.r.l.
Via E. Majorana, 1
IT-20054 Nova Milanese, MI

Phone: +39-03-62-365164
Fax: +39-03-62-40990
Email: info@beckhoff.it
URL: www.beckhoff.it

Poland

Beckhoff Automation SP.z.o.o.
Stara Iwiczna, ul. Sloneczna 116A
PL-05500 Piaseczno

Phone: +48-22-7572610
Fax: +48-22-7572607

Email: info@beckhoff.pl
URL: www.beckhoff.pl

Russia

Beckhoff Automation OOO
Ul. Bakuninskaya 14, Building 9
RU-105005 Moscow

Phone: +7-495-981-6454
Fax: +7-495-981-6454
Email: russia@beckhoff.com
URL: www.beckhoff.ru

Sweden, Norway

Beckhoff Automation AB
Stenådersgatan 2B
SE-21376 Malmö

Phone: +46-40-6808160
Fax: +46-40-6808161
Email: info@beckhoff.se
URL: www.beckhoff.se

Switzerland

Beckhoff Automation AG
Rheinweg 9
CH-8200 Schaffhausen

Phone: +41-52-6334040
Fax: +41-52-6334055
Email: schaffhausen@beckhoff.ch
URL: www.beckhoff.ch

USA, Canada, Mexico

Beckhoff Automation LLC
12150 Nicollet Avenue South
US-55337 Burnsville, MN

Phone: +1-952-8900000
Fax: +1-952-8902888
Email: beckhoff.usa@beckhoff.com
URL: www.beckhoffautomation.com

Features

NMT	NMT slave NMT master
Error control	Node guarding Heartbeat producer
Boot-up	Yes
Node ID range	None
Node ID	Proprietary
CANopen bit-rates	n/a
Type of bit-rate adjustment	None
RPDOs	194
TPDOs	194
PDO modes	Event-triggered Triggered by event-timer Remotely-requested Synchronous (cyclic) Synchronous (acyclic)
PDO linking	Yes
PDO mapping	Variable
SDO server	

	1
SDO client	127
Emergency producer	Yes
Emergency consumer	No
Sync producer	No
Sync counter	No
Time stamp	No
Additional functions	None
CANopen version	CiA 301 V 4.1
Frameworks	CiA 302
Device profiles	<p>CiA 401: CANopen device profile for generic I/O modules</p> <p>CiA 402: CANopen drives and motion control device profile</p> <p>CiA 404: CANopen device profile for measuring devices and closed-loop controllers</p> <p>CiA 405: CANopen interface and device profile for IEC 61131-3 programmable devices</p> <p>CiA 406: CANopen device profile for encoders</p>
Certified	No
Availability	In stock