

Field-bus card FC510x interface boards

FC5101, FC5102

The FC510x CANopen PCI cards provide state of the art CANopen support:

- Master or slave functionality
- All PDO transmission types, including event timer
- Each PDO can be monitored individually
- Integrated bus load monitor
- Host communication can either be free running, synchronised with the host or equidistant
- High precision Sync rate e.g. for motion control applications
- SDO communication at boot-up and at run time
- Emergency message handling
- Both guarding and heartbeat supported
- Boot-up according to CiA 302
- Error handling for each bus node individually configurable
- Powerful parameter and diagnosis interfaces
- One (FC5101) or two (FC5102) CANopen channels - each with individual processing power
- CAN interface(s) galvanically isolated
- Generic CAN layer-2 frames can be sent and received as well.

Although originally designed for TwinCAT, the software solution for PC compatible control technology, the FC510x cards can be used for any PC application. The TwinCAT I/O driver and system configuration tools interface to any C-program (DLL), Visual Basic Application (OCX) and application with OPC interface.

The FC5151 Mini PCI card brings field-bus functionalities to the industrial PC in a compact construction. It can only be ordered with a Beckhoff industrial PC with Mini PCI option. The FC5151 is optionally available with 128 KiB Novram.

www.beckhoff.com/FC5101
www.beckhoff.com/FC5151

Contact

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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	None
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