



FC5101, FC5102 | PCI CANopen

CANopen The FC510x PC plug-in cards link the PC to a CANopen network. They optionally act as network master or slave. In addition, general CAN messages can be sent or received – without having to bother with CAN frames in the application program. The cards provide a powerful implementation of the protocol, offering many desirable features:

- All CANopen PDO communication types are supported: event driven, time driven (using an event timer), synchronous, polling.
- individual monitoring of the process data objects
- synchronisation with the PC controller's task cycle
- SYNC cycle with quartz precision for drive synchronisation, zero cumulative jitter
- SDO parameter communication at start-up and run-time
- emergency message handling
- Guarding and Heartbeat
- boot-up according to DS302
- powerful parameter and diagnostics interfaces
- The error management for each bus user is freely configurable.
- It is possible to read the bus configuration and the node parameters.
- online bus load display
- bus monitor functionality

In TwinCAT, all functions are conveniently available.

Technical data	FC5101	FC5102
Fieldbus	CANopen	
Number of fieldbus channels	1	2
Data transfer rates	10, 20, 50, 100, 125, 250, 500, 800, 1,000 kbaud	
Interface to the PC	plug-and-play PCI interface 32 bit with 4 kbyte DPRAM per channel	
Bus interface	D-sub connector, 9-pin according to CANopen specification, galvanically decoupled	
Communication	CANopen network master and CANopen manager, optionally CANopen slave	
Bus device	per channel: max. 127 slaves	
Termination resistor	switchable	
Hardware diagnosis	2 LEDs per channel	
Bit width in the process image	total max.: 3 kbyte input and output data	
Dimensions	approx. 106 mm x 175 mm	
Operating temperature	0...+55 °C	

Ordering information	FC5101-000x	FC5102-000x
FC510x-0000	standard configuration	
FC510x-0002	configuration with 32 kbytes NOVRAM	

Accessories	
TX1100	I/O driver
Cordsets	cordsets and connectors

System	
CANopen	For further CANopen products please see the system overview .