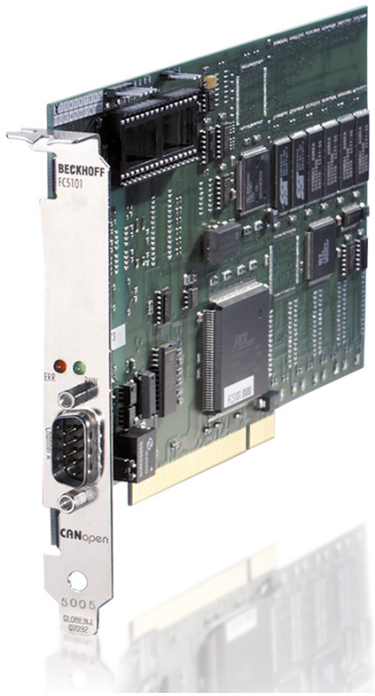
FC5101 | Infrastructure, 1-channel fieldbus card, CANopen, master/slave, PCI, D-sub



Product status: Regular delivery

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.

Product information

Technical Data

Technical data	FC5101-0000	FC5101-0002
Fieldbus	CANopen	
PC interface	PCI	
Number of fieldbus channels	1	
Data transfer rates	10, 20, 50, 100, 125, 250, 500, 800, 1000 kbaud	
Bus interface	D-sub connector, 9-pin according to CANopen specification, galvanically decoupled	
Termination resistor	switchable	
Hardware diagnosis	2 LEDs per channel	
Bit width in the process image	per channel total max.: 3 kbyte input and output data	
NOVRAM	–	32 kbytes
Dimensions	approx. 106 mm x 175 mm	
Operating temperature	0...+55 °C	
Driver	TwinCAT I/O and higher levels	

Ordering Information

Ordering information	
FC5101-0000	CANopen master PC interface card, 1-channel, PCI bus
FC5101-0002	CANopen master PC interface card, 1-channel, PCI bus, with 32 kbyte of NOVRAM