FC5121, FC5122 | PCIe CANopen

The FC512x PC plug-in cards link the PC (PCI Express) 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
– SDO parameter communication at start-up and runtime
– emergency message handling
– Guarding and Heartbeat
– boot-up according to DS 302
– 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

In TwinCAT, all functions are conveniently available.

Technical data	FC5121	FC5122
Fieldbus	CANopen	
Number of fieldbus channels	1	2
Data transfer rates	10, 20, 50, 100, 125, 250, 500, 800, 1000 kbaud	
Interface to the PC	PCIe (PCI Express) interface	
Bus interface	1 x D-sub socket, 9-pin, galvanically decoupled	2 x D-sub socket, 9-pin, galvanically decoupled
Communication	CANopen network master and CANopen manager	
Bus device	per channel: max. 127 slaves	
Termination resistor	switchable	
Type	PCI Express	
Hardware diagnosis	2 LEDs per channel	
Bit width in the process image	total max.: 4 kbyte input and output data	
Dimensions	approx. 100 mm x 130 mm	
Operating temperature	0…+55 °C	
Driver	TwinCAT 2.11 R3 and higher	

Accessories	
TX1100	I/O driver
Cordsets	cordsets and connectors

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