



## FC3101, FC3102 | PCI PROFIBUS



PROFIBUS DP, DP-V1 and DP-V2 (MC): the PROFIBUS PCI Fieldbus Cards from Beckhoff can master the PROFIBUS protocol with all its features. Thanks to the PROFIBUS chip developed in-house, the cards are equipped with the latest version of the PROFIBUS technology – including high-precision isochronous mode for axis control and expanded diagnostic options. These cards are the only ones to support different polling rates for the slaves and can even synchronise several channels accurately with each other.

Features:

- cycle times from 200 µs
- master, slave and PROFIBUS monitor up to 12 Mbit/s
- powerful parameter and diagnostics interfaces
- The error management for each bus user is freely configurable.
- It is possible to read the bus configuration and automatically assign the “GSE” files.

In TwinCAT, all functions are conveniently available. But other applications also benefit from the diverse features: general drivers for different Windows versions and convenient configuration tools are included in the TwinCAT I/O software package. High-level language programs use the DLL, Visual Basic applications the ActiveX interface. Applications with OPC interface can access process data and parameters via an OPC server.

Technical data	FC3101	FC3102
Fieldbus	PROFIBUS DP (standard), PROFIBUS DP-V1 (Cl. 1+2: acyclic services, alarms), DP-V2, PROFIBUS MC (equidistant)	
Number of fieldbus channels	1	2
Data transfer rates	9.6 kbaud...12 Mbaud	
Interface to the PC	plug-and-play PCI 32 bit with 4 kbyte DPRAM per channel	
Bus interface	1 x D-sub socket, 9-pin, galvanically decoupled	2 x D-sub socket, 9-pin, galvanically decoupled
Communication	master and slave functionality (also mixed)	
Bus device	per channel: max. 125 slaves with up to 244 bytes input, output, parameter, configuration or diagnostic data per slave	
Cycle time	differing DP cycle times per slave are possible using the CDL concept	
Type	PCI	
Hardware diagnosis	2 LEDs per channel	
Bit width in the process image	total max.: 3 kbyte input and output data	total max.: 2 x 3 kbyte input and output data
Dimensions	approx. 106 mm x 175 mm	
Operating temperature	0...+55 °C	

Ordering information	FC3101-000x	FC3102-000x
FC310x-0000	standard configuration	
FC310x-0002	configuration with 32 kbytes NOVRAM	

Accessories	
<b>TX1100</b>	I/O driver
<b>Cordsets</b>	cordsets and connectors

System	
<b>PROFIBUS</b>	For further PROFIBUS products please see the <a href="#">system overview</a> .