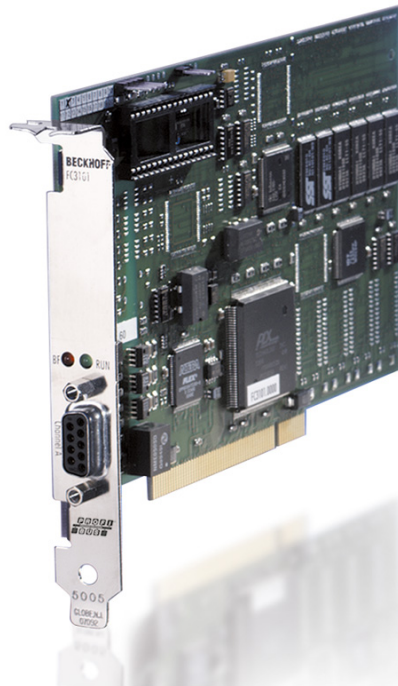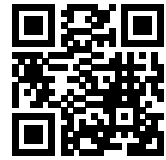# FC3101 | Infrastructure, 1-channel fieldbus card, PROFIBUS, master/slave, PCI, D-sub

ℹ **Product status:** Regular delivery

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.

Product information

Technical Data

Technical data	FC3101-0000	FC3101-0002
Fieldbus	PROFIBUS DP (standard), PROFIBUS DP-V1 (Cl. 1+2: acyclic services, alarms), DP-V2, PROFIBUS MC (equidistant)	

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PC interface	PCI
Number of fieldbus channels	1
Data transfer rates	9.6 kbaud...12 Mbaud
Bus interface	1 x D-sub socket, 9-pin, galvanically decoupled
Cycle time	differing DP cycle times per slave are possible using the CDL concept
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

Ordering Information

Ordering information	
FC3101-0000	standard configuration
FC3101-0002	configuration with 32 kbytes NOVRAM

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