



## cRIO PB

### PROFIBUS DP Master/Slave Module for NI CompactRIO™

#### □ Description

The cRIO PB module features cyclic DPV0 Master class 1 services for the fast exchange of I/O. The module additionally supports DP Slave mode for the integration in existing PROFIBUS DP networks, e.g. in combination with a PLC.

The small sized and rugged platform CompactRIO from National Instruments is a control and acquisition system designed for applications that require

high performance and reliability. Using FPGA technology (Field Programmable Gate Arrays) the implementation of hard real-time-enabled systems is also possible. cRIO is a modular system and there is a wide range of industrial I/O modules available. This results in combination with the cRIO PB module in an extremely attractive solution for the realisation of PAC systems implementing high-complex data

acquisition and control functions at the same time.

A direct LabVIEW™ VI interface for a seamless integration of the module and a full graphical Windows based PROFIBUS DP configuration tool are available.

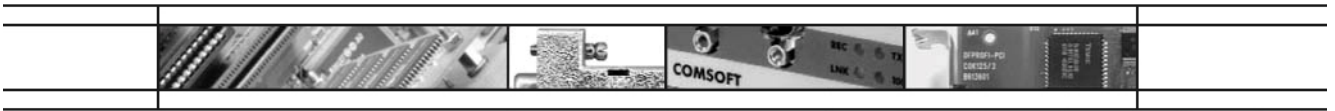
The easy-to-use VI interface provides detailed examples incl. source code for DP Master and DP Slave.

#### □ Technical Data

Supported PROFIBUS Protocol Versions	DPV0
Operation Mode	Master class 1 and DP Slave
Interfaces	PROFIBUS RS485 (isolated) Sub-D p pins SPI
Baud Rates	PROFIBUS DP 9600 Bit/s - 12000 Kbit/s SPI 4 Mbit/s
Ambient Temperature Range	0 - 55 °C
Power Requirements	1.9 W
Power Supply	24 VDC



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**Order Numbers**

<b>Order No.</b>	<b>Item</b>
4000-7-C01-3-E	<b>cRIO PB – PROFIBUS DP Slave</b>
4000-7-C02-3-E	<b>cRIO PB – PROFIBUS DP Master/Slave</b>