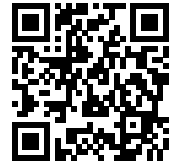


CX2500-B310 | Fieldbus slave module PROFIBUS for CX20xx, CX52xx



i Product status: Regular delivery

The CX2500-Bxxx fieldbus slave modules are left-sided attachments for the Embedded PC series CX20xx and CX52x0. The use of systems with fieldbus slave modules enables the use of a CX system as a subordinate local controller for the construction of complex or modular systems. External process data are received from the master and processed, or data from its own process peripherals are returned to the master controller directly or processed.

The CX2500-B310 fieldbus slave module assumes the function of a PROFIBUS slave. Each module occupies a PCI Express lane, so that a total of four of these modules can be connected in any desired combination to the left side of a CX20xx group. The fieldbus slave modules are single-channel modules. The CX2500-B310 fieldbus slave module for PROFIBUS can present itself to the master as a multiple (max. quadruple) virtual slave station, resulting in a four-fold increase in the quantity of exchanged process data.

The parallel operation of several identical or different slaves is possible, e.g. two PROFIBUS slaves or a PROFIBUS slave and a CANopen slave. In the case of mixed operation of master and slave connections, CX systems act as intelligent gateways between different fieldbuses: data are received, processed and fed into other fieldbuses.

Master or slave connections network several CX systems with one another strictly deterministically via the fieldbus level. CX fieldbus modules can be retrofitted/exchanged by adding them to existing CX systems. The scanning and recognizing of the modules, the parameterization, the configuration of the connected I/O components and the online diagnostics of the process/fieldbus status take place in the TwinCAT System Manager.

Product information

Technical Data

Technical data

CX2500-B310

Fieldbus	PROFIBUS DP, DP-V1
Data transfer rates	9.6 kbaud...12 Mbaud
Bus interface	1 x D-sub socket, 9-pin
Bus device	max. 125 slaves
Interface to the CPU	PCI Express
Max. number of bytes	max. 244 byte input/244 byte output
Max. power loss	2.8 W
Dimensions (W x H x D)	24 mm x 99 mm x 54.5 mm
Weight	approx. 180 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protection class	IP 20
