

CX2500-M310 | Fieldbus master module PROFIBUS for CX20xx, CX52xx



i Product status: Regular delivery

The CX2500-Mxxx fieldbus master modules are left-sided attachments for the Embedded PC series CX20xx and CX52x0. The use of systems with fieldbus master modules enables the segment-like construction of control structures in extensive plants and machines using further fieldbus components (Bus Couplers, Bus Terminal Controllers, Drive Technology, etc.).

The CX2500-M310 fieldbus master module assumes the function of a PROFIBUS master. Each module occupies a PCI Express lane, so that a total of four modules can be connected in any desired combination to the left side of a CX20xx group. Compared with the Beckhoff PCIe Fieldbus Cards, the technical data of the fieldbus master modules are almost identical, but with single channels.

The parallel operation of several identical or different masters is possible, e.g. two PROFIBUS masters or a PROFIBUS master and a CANopen master. 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-M310
Fieldbus	PROFIBUS DP, DP-V1; DP-V2 (MC) in preparation
Data transfer rates	9.6 kbaud...12 Mbaud

Bus interface	1 x D-sub socket, 9-pin
Bus device	max. 125 slaves with up to 244 bytes input, output, parameter, configuration or diagnostic data per slave
Interface to the CPU	PCI Express
Max. power loss	2.8 W
Properties	PROFIBUS – different DP cycle times are possible for each slave. The error management for each user is freely configurable.
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
