

B&R - X20 System**X20BC0083**

POWERLINK Bus Controller

Technical specifications

Fieldbus role	POWERLINK V1/V2 controlled node
Physical layer	100BASE-TX
Ports	2 shielded RJ45 ports, integrated hub
Transfer rate	100 Mbit/s
Duplex mode	Half-duplex
Autonegotiation	Supported
Auto-MDI/MDIX	Supported
Maximum segment length	100 m between two stations
Minimum fieldbus cycle time	200 µs
Minimum X2X Link cycle time	200 µs
Dynamic Node Allocation	Supported
Electrical isolation	POWERLINK isolated from bus and I/O
Required bus base	X20BB80, ordered separately
Required power-supply module	X20PS9400 or X20PS9402, ordered separately

Documented role

B&R X20BC0083 is a POWERLINK controlled-node bus controller with an integrated two-port 100BASE-TX hub for X2X Link I/O stations for the X20 System.

Documented applications

- Connecting remote X20 X2X Link I/O stations to POWERLINK
- Synchronous distributed I/O operation on POWERLINK machine networks
- Line-topology POWERLINK installations using an integrated two-port hub

Selection and installation checks

X20BC0083 is a POWERLINK controlled node with an integrated two-port hub; verify node addressing, topology, 100 m segment limits, cycle timing, X20BB80, power-supply module, X20TB12, and saved I/O configuration before replacement.