

B&R X20HB8884

POWERLINK Link Selector

B&R; X20HB8884 is a compact POWERLINK link selector that connects a POWERLINK device to a redundant cable network. Its two shielded RJ45 interfaces select the higher-quality network path while supporting 100BASE-TX communication at 100 Mbit/s.

BRAND	B&R;	ORIGIN	Austria
MODEL	B&R; X20HB8884	PRODUCT	POWERLINK Link Selector
FAMILY	X20 Redundancy System	SOURCE	B&R; version 2.31, 2025-08-04

MANUFACTURER SOURCE RECORD

Datasheet X20(c)HB8884
B&R; version 2.31, 2025-08-04

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B&R X20HB8884

Product Overview

SYSTEM FUNCTION

B&R; X20HB8884 is a compact POWERLINK link selector that connects a POWERLINK device to a redundant cable network. Its two shielded RJ45 interfaces select the higher-quality network path while supporting 100BASE-TX communication at 100 Mbit/s.

FUNCTION 1

Connects a standard POWERLINK device to two redundant cable paths

FUNCTION 2

Selects the available higher-quality network line during operation

FUNCTION 3

Provides two shielded 100BASE-TX RJ45 interfaces

FUNCTION 4

Reports module and bus function through dedicated status indicators

TECHNICAL NOTE

Install B&R; X20HB8884 with X20PS8002, X20TB12, the documented X20BB81 or X20BB82 base and the required hub expansion module. Preserve both redundant cable paths, segment lengths and port assignments, then prove communication through each path separately.

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE
Device type	POWERLINK compact link selector
Network interfaces	2 shielded RJ45 ports
Physical layer	100BASE-TX
Transfer rate	100 Mbit/s
Duplex mode	Half-duplex
Autonegotiation	Supported
Auto-MDI/MDIX	Supported
Segment length	100 m maximum between stations
Hub propagation delay	0.96 to 1 us
Power consumption	2 W
Electrical isolation	Power supply isolated from POWERLINK IF1 and IF2
Protection rating	IP20

ENGINEERING BOUNDARY

Install B&R; X20HB8884 with X20PS8002, X20TB12, the documented X20BB81 or X20BB82 base and the required hub expansion module. Preserve both redundant cable paths, segment lengths and port assignments, then prove communication through each path separately.

Acceptance Path

1 IDENTITY

B&R; X20HB8884 and both redundant paths are recorded.

2 TOPOLOGY

Power, base, expansion hardware and both RJ45 routes match the drawing.

3 COMMUNICATION

100 Mbit/s POWERLINK operation is stable on each path.

4 REDUNDANCY

Either path can be interrupted without loss of the approved device function.

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
Redundant machine network	B&R; X20HB8884 attaches a POWERLINK device to two cable paths without requiring a looped ring.
Tree-topology redundancy	The link-selector arrangement supports redundant POWERLINK branches in documented tree structures.
Availability retrofit	An existing POWERLINK device gains dual-path connectivity through the compact link-selector assembly.
Network-path commissioning	Separate path tests confirm continued data transfer after either documented cable route is interrupted.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What network function does B&R; X20HB8884 provide?	It is a compact link selector that connects a POWERLINK device to a redundant POWERLINK cable system.
How many network ports are on B&R; X20HB8884?	The module provides two shielded RJ45 interfaces for the redundant 100BASE-TX paths.
Does B&R; X20HB8884 use full-duplex Ethernet?	No. The official technical data specifies half-duplex operation, with autonegotiation and Auto-MDI/MDIX supported.
What cable length limit applies to B&R; X20HB8884?	Each segment between two stations is limited to 100 m under the documented 100BASE-TX arrangement.

FAQ, Related Products and Source

QUESTION	ANSWER
Which hardware is mandatory around B&R; X20HB8884?	B&R; lists X20PS8002, X20TB12, X20BB81 or X20BB82 and the required X20HB2880 or X20HB2885 expansion module.
How does B&R; X20HB8884 choose a redundant path?	The integrated link-selector function transfers data over the highest-quality available network line.
What delay does B&R; X20HB8884 introduce?	The documented hub propagation delay is 0.96 to 1 microsecond.
How should B&R; X20HB8884 redundancy be accepted?	Prove normal traffic first, then interrupt each path independently and verify communication continuity, recovery and the expected status indications.

Related Products on Apter Power

MODEL	APTER POWER PAGE
GE 8021-CE-LH	View GE 8021-CE-LH page
GE 8810-HI-TX-01	View GE 8810-HI-TX-01 page
GE 8811-IO-DC	View GE 8811-IO-DC page
GE 8851-LC-MT	View GE 8851-LC-MT page
GE DS200TCEAG1BSF	View GE DS200TCEAG1BSF page
GE IC600BF843	View GE IC600BF843 page
GE IC693ALG391	View GE IC693ALG391 page
GE IC693ALG391G	View GE IC693ALG391G page

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