

INDUSTRIAL AUTOMATION PRODUCT

X20BC8084

Expandable POWERLINK bus controller

POWERLINK network frames and X20 I/O process data

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	B&R X20 distributed I/O
Part number	X20BC8084
Country	Austria
HS code	8537101190

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Technical Specifications

Technical values below are limited to the named B&R product record.

PARAMETER	TECHNICAL VALUE
B&R ID	0x2674
POWERLINK role	V1/V2 controlled node; Type 2
Ports	2 shielded RJ45
Physical layer	100BASE-TX
Data rate	100 Mbit/s
Maximum segment	100 m
Minimum fieldbus/X2X cycle	200 us
Bus power consumption	2 W

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	X20 bus base and I/O slices
Companion hardware	POWERLINK cable and switch
Field connection	24 V DC station supply
Primary system function	Operates as a POWERLINK controlled node
Controlled acceptance duty	Remote X20 I/O station

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System Role and Architecture

POWERLINK network frames and X20 I/O process data

FUNCTION 1

Operates as a POWERLINK controlled node

FUNCTION 2

Provides two shielded RJ45 ports

FUNCTION 3

Transfers X20 data with 200-microsecond minimum cycles

FUNCTION 4

Supports link selection and redundancy

Matched system components

- X20 bus base and I/O slices
- POWERLINK cable and switch
- 24 V DC station supply
- Automation Studio hardware configuration

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	X20 bus base and I/O slices
Companion hardware	POWERLINK cable and switch
Field connection	24 V DC station supply
Primary system function	Operates as a POWERLINK controlled node
Controlled acceptance duty	Remote X20 I/O station

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Applications and Engineering Context

Remote X20 I/O station

Operates as a POWERLINK controlled node

POWERLINK line topology

Provides two shielded RJ45 ports

Redundant distributed-I/O link

Transfers X20 data with 200-microsecond minimum cycles

Bus-controller replacement

Supports link selection and redundancy

TECHNICAL NOTE

Record the node number, cable port order and X2X configuration before replacement; verify both link directions and I/O diagnostics after startup.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20BC8084 / X20BC8084 recorded
Physical interface	X20 bus base and I/O slices
Companion check	POWERLINK cable and switch
Functional proof	Operates as a POWERLINK controlled node
Application test	Remote X20 I/O station

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Engineering Precautions

- 1 Verify the full X20BC8084 marking and its assigned B&R X20 distributed I/O position before work.
- 2 Place the connected machine or process in the approved maintenance state.
- 3 Isolate the applicable supply and powerlink network frames and x20 i/o process data field energy before disconnecting conductors.
- 4 Record connector, conductor, address and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
330162-03-45-45-45-05-05-94-01	Related industrial automation product	View 330162-03-45-45-45-05-05-94-01 page
86691-00750-0435-15	Related industrial automation product	View 86691-00750-0435-15 page
200350-02-00-01	Related industrial automation product	View 200350-02-00-01 page
21500-00-12-10-02	Related industrial automation product	View 21500-00-12-10-02 page
21500-00-32-05-02	Related industrial automation product	View 21500-00-32-05-02 page
IC670GBI002	Related industrial automation product	View IC670GBI002 page
IC670GBI001	Related industrial automation product	View IC670GBI001 page
330851-04-000-040-10-01-00	Related industrial automation product	View 330851-04-000-040-10-01-00 page

MANUFACTURER SOURCE RECORD

B&R official product data sheet

B&R product data

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