

INDUSTRIAL AUTOMATION PRODUCT

X20IF1086-2

POWERLINK Fiber-Optic Interface Module

B&R X20IF1086-2 is a powerlink fiber-optic interface module for the documented X20 System installation.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	X20 System
Part number	X20IF1086-2
Origin / HS	Austria / 8537101190
Shipping origin	Xiamen,Fujian,China

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Confirm B&R X20IF1086-2, X20 controller or bus controller interface slot, 100BASE-FX duplex LC multimode fiber port, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

System Role and Architecture

B&R X20IF1086-2 is a powerlink fiber-optic interface module for the documented X20 System installation.

FUNCTION 1
Provides POWERLINK fiber-optic communication

FUNCTION 2
Uses exact B&R article identity X20IF1086-2

FUNCTION 3
Matches interface: POWERLINK V1/V2

FUNCTION 4
Matches physical layer: 100BASE-FX

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	X20 System
02	X20 controller or bus controller interface slot
03	100BASE-FX duplex LC multimode fiber port
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	X20 System
Interface role	POWERLINK fiber-optic communication
Field / power context	X20 controller or bus controller interface slot
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete B&R X20IF1086-2 marking and installed X20 System position before work.
- 2

Place the machine or process in the approved maintenance state and isolate every applicable energy source.
- 3

Record 100BASE-FX duplex LC multimode fiber port, terminal assignments, shielding and protective-ground connections before removal.
- 4

Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Interface	POWERLINK V1/V2	Ethernet segment	Maximum 400 m
Physical layer	100BASE-FX	POWERLINK segment	Maximum 2 km
Connector	Duplex LC	Power consumption	1.8 W
Transfer rate	100 Mbit/s	Protection	IP20
Fiber	Multimode 62.5/125 or 50/125 um		

ENGINEERING BOUNDARY

Confirm B&R X20IF1086-2, X20 controller or bus controller interface slot, 100BASE-FX duplex LC multimode fiber port, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete B&R X20IF1086-2 marking and installed X20 System position before work.
- 2

Place the machine or process in the approved maintenance state and isolate every applicable energy source.
- 3

Record 100BASE-FX duplex LC multimode fiber port, terminal assignments, shielding and protective-ground connections before
- 4

Use ESD controls and protect keyed connectors, terminals and exposed electronics from contamination.

Applications and Engineering Context

X20 System system maintenance

Restores POWERLINK fiber-optic communication in the documented installation.

Controlled hardware replacement

Preserves the exact X20IF1086-2 identity and approved configuration.

Interface verification

Confirms 100BASE-FX duplex LC multimode fiber port before energization.

Functional recommissioning

Reviews diagnostics and records the controlled system response.

TECHNICAL NOTE

Confirm B&R X20IF1086-2, X20 controller or bus controller interface slot, 100BASE-FX duplex LC multimode fiber port, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20IF1086-2 recorded
Host / carrier	X20 System
Physical interface	100BASE-FX duplex LC multimode fiber port matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled POWERLINK fiber-optic communication response recorded

IMPORTANT NOTICE

Confirm B&R X20IF1086-2, X20 controller or bus controller interface slot, 100BASE-FX duplex LC multimode fiber port, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330903-00-07-10-01-CN
02	Bently Nevada 330903-00-07-10-01-00
03	Bently Nevada 330162-03-45-45-45-05-05-94-01-02
04	Bently Nevada 330101-00-60-90-01-05
05	Bently Nevada 330104-11-25-10-02-00
06	Bently Nevada 330102-04-25-10-02-00
07	Bently Nevada 330910-00-07-05-02-CN
08	Bently Nevada 330910-00-07-05-02-05

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

B&R X20IF1086-2 product data | Data sheet X20IF1086-2

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