

INDUSTRIAL AUTOMATION PRODUCT

X20BC0087

Modbus TCP/UDP Bus Controller

B&R X20BC0087 is a modbus tcp/udp bus controller for the documented X20 System installation.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	X20 System
Part number	X20BC0087
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 X20BC0087, X20 I/O station and Modbus Ethernet network, two shielded RJ45 switch ports and X2X Link, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

System Role and Architecture

B&R X20BC0087 is a modbus tcp/udp bus controller for the documented X20 System installation.

FUNCTION 1
Provides Modbus TCP/UDP slave bus control

FUNCTION 2
Uses exact B&R article identity X20BC0087

FUNCTION 3
Matches module type: Bus controller

FUNCTION 4
Matches fieldbus: Modbus TCP/UDP slave

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	X20 System
02	X20 I/O station and Modbus Ethernet network
03	two shielded RJ45 switch ports and X2X Link
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	X20 System
Interface role	Modbus TCP/UDP slave bus control
Field / power context	X20 I/O station and Modbus Ethernet network
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

- 1

Confirm the complete B&R X20BC0087 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 two shielded RJ45 switch ports and X2X Link, 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
Module type	Bus controller	Minimum fieldbus cycle	1 ms
Fieldbus	Modbus TCP/UDP slave	X2X Link cycle	500 us
Ethernet ports	2 shielded RJ45 switch ports	Bus power	2 W
Transfer rate	10/100 Mbit/s	Protection	IP20
Maximum segment	100 m		

ENGINEERING BOUNDARY

Confirm B&R X20BC0087, X20 I/O station and Modbus Ethernet network, two shielded RJ45 switch ports and X2X Link, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete B&R X20BC0087 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 two shielded RJ45 switch ports and X2X Link, 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 Modbus TCP/UDP slave bus control in the documented installation.

Controlled hardware replacement

Preserves the exact X20BC0087 identity and approved configuration.

Interface verification

Confirms two shielded RJ45 switch ports and X2X Link before energization.

Functional recommissioning

Reviews diagnostics and records the controlled system response.

TECHNICAL NOTE

Confirm B&R X20BC0087, X20 I/O station and Modbus Ethernet network, two shielded RJ45 switch ports and X2X Link, wiring, grounding, configuration, companion accessories and controlled commissioning results before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20BC0087 recorded
Host / carrier	X20 System
Physical interface	two shielded RJ45 switch ports and X2X Link matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled Modbus TCP/UDP slave bus control response recorded

IMPORTANT NOTICE

Confirm B&R X20BC0087, X20 I/O station and Modbus Ethernet network, two shielded RJ45 switch ports and X2X Link, 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 330173-00-06-10-02-00
02	Bently Nevada 330780-91-05
03	Bently Nevada 330709-000-050-10-12-05
04	Bently Nevada 330706-005-046-10-02-00
05	Bently Nevada 330704-0-50-10-02-05
06	Bently Nevada 330500-07-00
07	Bently Nevada 330705-02-18-10-02-00
08	Bently Nevada 330701-00-10-10-02-00

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

B&R X20BC0087 product data | Data sheet X20(c)BC0087

APTER POWER SALES TEAM

WHATSAPP / PHONE

EMAIL

WEBSITE

+86 180 3023 5313

sales13@apterpower.com

www.apterpower.com

