

INDUSTRIAL AUTOMATION PRODUCT

X20CP1686X

High-performance X20 controller

High-performance PLC logic and deterministic network data

IDENTITY	VERIFIED VALUE
Manufacturer	B&R
System family	B&R X20 PLC
Part number	X20CP1686X
Country	Austria
HS code	8537101190

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



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Technical Specifications

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

PARAMETER	TECHNICAL VALUE
Processor	Intel Atom; 1.3 GHz
Main memory	1 GB LPDDR4
Onboard flash	2 GB
Removable media	CompactFlash
Interfaces	Ethernet; POWERLINK; 2 USB; RS232; X2X Link
Power consumption	7.5 W

ENGINEERING DATA SUMMARY

DATA GROUP	VERIFIED ASSIGNMENT
Installed host / carrier	X20 bus base and I/O
Companion hardware	24 V DC supply
Field connection	CompactFlash or onboard application storage
Primary system function	Uses a 1.3 GHz Intel Atom processor
Controlled acceptance duty	High-speed machine control

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System Role and Architecture

High-performance PLC logic and deterministic network data

FUNCTION 1

Uses a 1.3 GHz Intel Atom processor

FUNCTION 2

Provides 1 GB LPDDR4 memory

FUNCTION 3

Includes 2 GB onboard flash

FUNCTION 4

Integrates POWERLINK, Ethernet and X2X Link

Matched system components

- X20 bus base and I/O
- 24 V DC supply
- CompactFlash or onboard application storage
- Automation Studio project

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Installed host / carrier	X20 bus base and I/O
Companion hardware	24 V DC supply
Field connection	CompactFlash or onboard application storage
Primary system function	Uses a 1.3 GHz Intel Atom processor
Controlled acceptance duty	High-speed machine control

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Applications and Engineering Context

High-speed machine control

Uses a 1.3 GHz Intel Atom processor

POWERLINK motion system

Provides 1 GB LPDDR4 memory

Data-intensive automation cell

Includes 2 GB onboard flash

Controller modernization

Integrates POWERLINK, Ethernet and X2X Link

TECHNICAL NOTE

Create a complete project and storage backup, then confirm runtime version, licenses, interface addresses and POWERLINK timing before production release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	X20CP1686X / X20CP1686X recorded
Physical interface	X20 bus base and I/O
Companion check	24 V DC supply
Functional proof	Uses a 1.3 GHz Intel Atom processor
Application test	High-speed machine control

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Engineering Precautions

1

Verify the full X20CP1686X marking and its assigned B&R X20 PLC position before work.

2

Place the connected machine or process in the approved maintenance state.

3

Isolate the applicable supply and high-performance plc logic and deterministic network 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
DS200SBCBG1ADC	Related industrial automation product	View DS200SBCBG1ADC page
DS200PCTMG1AAA	Related industrial automation product	View DS200PCTMG1AAA page
DS200PCCAG9ACB	Related industrial automation product	View DS200PCCAG9ACB page
DS200FCRRG1AKD	Related industrial automation product	View DS200FCRRG1AKD page
DS200ADGIH1AAA	Related industrial automation product	View DS200ADGIH1AAA page
A06B-0104-B111-7000	Related industrial automation product	View A06B-0104-B111-7000 page
8200-226	Related industrial automation product	View 8200-226 page
A86L-0001-0235	Related industrial automation product	View A86L-0001-0235 page

MANUFACTURER SOURCE RECORD

B&R official product data sheet

B&R product data

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