

B&R - X20 System

X20CP3686X

Programmable Logic Controller CPU

Product identity and technical data

Processor	Intel Atom E3930, 1.3 GHz, with integrated I/O processor
Working memory	1 GB LPDDR4 SDRAM
Application memory	2 GB eMMC flash memory plus removable CompactFlash
Remanent variables	1 MB maximum
Shortest task class cycle	100 microseconds
Typical instruction cycle	0.0015 microseconds
Ethernet	1 x 10/100/1000BASE-T Ethernet, shielded RJ45
POWERLINK	POWERLINK V2, 100 Mbit/s, managing or controlled node, PRC support
Expansion	3 modular interface slots; 1 CompactFlash slot
CPU/X2X supply	24 VDC -20%/+25%, 1.5 A maximum at 24 VDC
Power consumption	7.5 W without interface modules and USB loads
Product dimensions	20.0 × 9.9 × 8.5 cm, width × height × depth

Documented role

X20CP3686X is a B&R; X20 System programmable logic controller CPU for industrial automation control.

The fanless controller provides Intel Atom E3930, 1.3 GHz, with integrated I/O processor, 1 GB LPDDR4 SDRAM, 2 GB eMMC flash memory plus removable CompactFlash, Gigabit Ethernet, POWERLINK, USB, RS232, and X2X Link / X2X+ master.

Documented applications

- High-performance X20 controller applications with demanding cycle-time requirements
- Redundant control-system applications supported by the controller
- ACOPOS motion-control and Visual Components applications supported by the controller

Selection and installation checks

X20CP3686X uses removable CompactFlash application memory; before replacement, verify Automation Runtime, the project image, interface modules, network roles, 24 VDC supply, mounting orientation, and backups.

Product weight: 0.53 kg; operating temperature: -25 to 60 °C horizontal; -25 to 50 °C vertical; degree of protection: IP20.