

B&R - X20 System

X20CP1586

Programmable Logic Controller CPU

Product identity and technical data

Product family	X20 System
Product type	Programmable logic controller CPU
Processor	Intel Atom E680T, 1.6 GHz, with additional I/O processor
Working memory	512 MB DDR2 SDRAM
SRAM	1 MB
Remanent variables	1 MB maximum
Shortest task class cycle	100 microseconds
Typical instruction cycle	0.0027 microseconds
Ethernet	1 x 10/100/1000BASE-T RJ45
POWERLINK	100 Mbit/s; managing or controlled node; PRC support
USB	2 x USB 1.1/2.0 Type A, 0.5 A
Serial interface	RS232 via X20TB12, up to 115.2 kbit/s and 900 m

Documented role

X20CP1586 is a B&R; X20 System programmable logic controller CPU for high-performance machine and process control.

The fanless controller provides a 1.6 GHz Intel Atom processor, 512 MB DDR2 SDRAM, Gigabit Ethernet, POWERLINK, USB, RS232, X2X Link, a modular interface slot, and CompactFlash application memory.

Selection and installation checks

- Uses a 1.6 GHz Intel Atom processor with an additional I/O processor
- Provides 512 MB DDR2 SDRAM, Gigabit Ethernet, POWERLINK, USB, RS232, and X2X Link
- Runs fanless and supports a 100 microsecond shortest task class cycle

X20CP1586 requires a separately ordered CompactFlash application-memory card; verify Automation Runtime and project compatibility, interface module, network roles, 24 V DC power segmentation, USB loads, mounting orientation, and the validated backup before replacement.