

B&R - X20 System

X20CP1584

Programmable Logic Controller CPU

Product identity and technical data

Product family	X20 System
Product type	Programmable logic controller CPU
Processor	Intel Atom E620T, 0.6 GHz, with additional I/O processor
Working memory	256 MB DDR2 SDRAM
SRAM	1 MB SRAM
Remanent variables	256 kB maximum
Shortest task class cycle	400 microseconds
Typical instruction cycle	0.0075 microseconds
Ethernet	1 x 10/100/1000BASE-T, shielded RJ45
POWERLINK	POWERLINK V1/V2, 100 Mbit/s, managing or controlled node, PRC support
USB	2 x USB 1.1/2.0 Type A, 0.5 A maximum per port
Serial interface	RS232 via X20TB12, 115.2 kbit/s maximum, 900 m maximum

Documented role

X20CP1584 is a B&R; X20 System programmable logic controller CPU for industrial automation control.

The fanless controller provides Intel Atom E620T, 0.6 GHz, with additional I/O processor, 256 MB DDR2 SDRAM, integrated Ethernet, POWERLINK, USB, RS232, X2X Link master, and removable CompactFlash application storage.

Selection and installation checks

- Uses Intel Atom E620T, 0.6 GHz, with additional I/O processor
- Provides 256 MB DDR2 SDRAM, 1 x 10/100/1000BASE-T, shielded RJ45, and POWERLINK V1/V2, 100 Mbit/s, managing or controlled node, PRC support
- Runs fanless with a shortest task class cycle of 400 microseconds

X20CP1584 requires separately ordered CompactFlash application memory; verify the material number, runtime and project, interface modules, network roles, 24 VDC power segmentation, USB loads, mounting orientation, and validated backup before replacement.