

IoT Edge Controller

DIN-rail mountable Fanless Embedded Computer

New Product release: Windows automation PC from CONPROSYS™ series

New



※ Combination with I/O Modules (Optional)

CPS-BXC200

- ✓ Windows 10 IoT Enterprise
- ✓ McAfee Security Whitelist
- ✓ Intel Quad-core Apollo Lake SoC
- ✓ 3x Intel Gigabit LAN ports
- ✓ -20 ~ 60°C available
- ✓ DIN-rail mountable

Embedded Windows PC for Internet connection

Equipped with energy-saving but powerful Quad Core CPU Intel® Atom® x7-E3950. Windows 10 IoT Enterprise LTSC 2016 64bit (Japanese/English/Chinese/Korean) and McAfee whitelist anti-virus software are pre-installed. Enough functions for internet connection are equipped already in compact body.



Flexible I/O modular system

Digital I/O

Relay

Analog I/O

Temperature Sensor

Counter

RS-232C/485

LoRa

20 kinds+ of I/O modules can be utilized to connect with different types of sensors and actuators at each end-points and achieve M2M communication.

Same API driver software as PCI cards and USB units series can be used on the unit with high compatibility on application level.



CONPROSYS™ IoT Edge Controller CPS-BXC200

Ordering Information

Model	Specifications	OS
CPS-BXC200-NA01P03	Intel® Atom® x7-E3950, 4GB RAM ECC, 32GB M.2 Card(Q-MLC) installed, DisplayPort×1, Analog RGB×1	N/A
CPS-BXC200-W10M01P03		Windows 10 IoT Enterprise LTSB2016 64bit Japanese / English / Chinese / Korean + McAfee Whitelist security software

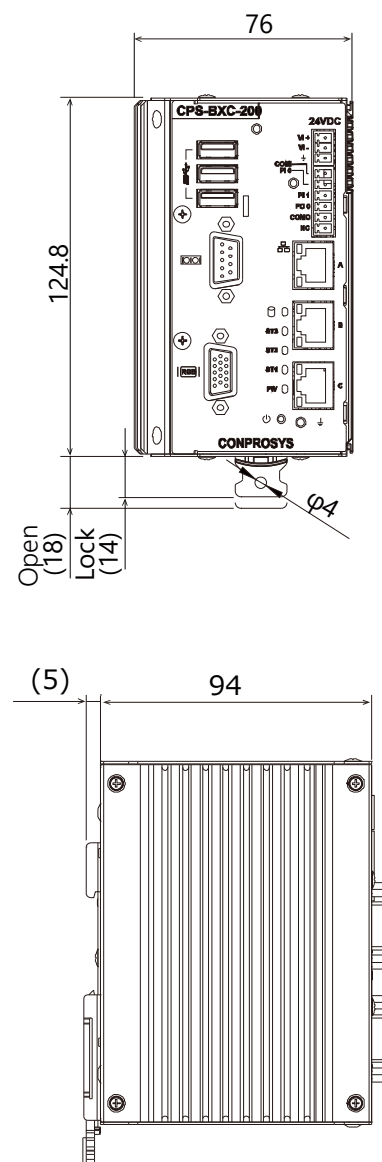
Specification

Item	CPS-BXC200
CPU	Intel® Atom® Processor x7-E3950 (1.6GHz)
BIOS	AMI BIOS
Memory	4GB (204-pin SO-DIMM), PC3-12800 (DDR3L-1600) ECC
Graphic Controller	Intel® HD Graphics 505 (built-in CPU)
System maximum resolution	Analog RGB : 1,920×1,200 @ 60Hz, DisplayPort : 3,840×2,160 @ 60Hz
Display	Analog RGB×1 (15-pinHD-SUB connector), DisplayPort×1
M.2 card slot	1 slot, M.2 2242, SATAIII, Built-in M.2 card (pSLC) (32GB) *1
CFast card slot	1slot, CFast CARD Type I, bootable
LAN *2	Intel I210IT controller 1000BASE-T/100BASE-TX/10BASE-T 3ports (RJ-45 connector) (Wake On LAN support)
USB	USB 3.0 compliant 3ports (TYPE-A connector × 3)
Serial I/F	RS-232C 1 port (9-pin D-SUB connector [male]), Baud rate : 50 - 115,200bps
Watchdog timer	WDT: Software programmable, 1sec - 255sec, Time up allows reset, shutdown
General-purpose I/O	Isolation: Input 2 channels (one input switched between remote reset or remote power-on)
Hardware monitoring	Isolation: Output 1 channel (output can be switched to WDT external output)
RTC/CMOS	Monitoring CPU temperature, power voltage
Power Management	Lithium backup battery life: 10 years or more. The real-time clock is accurate within ±3 minutes (at 25° C) per month (RTC with built-in CPU)
Stack Bus	Power management setup via BIOS, Power On by Power On by Ring / Wake On LAN, PC98/PC99 ACPI Support PC98/PC99 ACPI Power management
RAS	The maximum number of stack buses: 8. (The total current consumption of the devices should be less than 3.3A.)
Rated input voltage	1 port (3.81mm pitch 6-pin)
Power consumption (Max.)	24VDC (Range of input voltage: 24V±10%)
External device power supply capacity	24V 1.5A (USB I/F, without stack bus power supply), 24V 4.8A (USB I/F, with stack bus power supply)
Physical dimensions (mm)	CFast card slot: +3.3V 0.5A (500mA x 1), USB3.0 I/F: +5V 2.7A (900mA x 3), Stack Bus I/F: 24V 3.3A
Weight	76(W)×94(D)×124.8(H) (not include projection)
Installation method	1.1kg
	Quick mounting onto 35mm DIN rail

*1: The capacity of M.2 Card is a value when 1GB is calculated by 1 billion bytes. The capacity that can be recognized from OS might be displayed fewer than an actual value. *2: If you use the 1000BASE-T, be careful of the operating temperature.

Item	CPS-BXC200
Operating ambient temperature/Non-operating ambient temperature	-20 - 60°C (When 1000BASE-T is used: -20 - 55° C) *3 / -20 - 60°C
Operating ambient humidity/Non-operating ambient humidity	10 - 90%RH (No condensation) / 10 - 90%RH (No condensation)
Floating dust particles/Corrosive	Not to be excessive / None
Line-noise resistance	Line noise: AC Line / ±2kV *4, Signal Line / ±1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
Static electricity resistance	Static electricity: Touch / ±4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2), Air / ±8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance: 10 - 57Hz / semi-amplitude vibration 0.15mm, 57 - 500Hz/2.0G 40minutes each in X, Y, and Z directions (JIS C60068-2-6-compliant, IEC60068-2-6-compliant)
Shock resistance	15G half-sine shock for 11ms in X, Y, and Z directions (JIS C 60068-2-6-compliant, IEC 60068-2-6-compliant)
Grounding	Class D grounding, SG-FG / continuity
Standard	VCCI Class A, FCC Class A, CE Marking (EMC Directive Class A, RoHS Directive)

*3: The output derating is required. *4: When power unit (CPS-PWD-90AW24-01) is used.



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