



esd electronics, inc.

HARDWARE • SOFTWARE • ENGINEERING

CAN-CBX-CPU5201

Powerful Realtime Controller in a Smart Format



CAN-CBX-CPU5201

- PowerPCTM MPC5121 with FPU, 400 MHz
- 0.5 GB SDRAM, 1 GB NAND-Flash
- 100BASE-TX Ethernet
- 2x CAN, 1x USB 2.0 Full-Speed Host
- Profibus-DP slave (optional)
- EtherCAT-Master (optional)

EtherCAT[®]



CANopen[®]

PowerPCTM Device

The CAN-CBX-CPU5201 is a stand-alone module with a powerful 400 MHz PowerPCTM, 0.5 GB DDR2-SDRAM, 1GB NAND-Flash and RTC with battery backup on-board.

InRailBus

The CAN-CBX-CPU5201 module allows application of the power supply and the CAN bus signals through the InRailBus connector (TBUS-connector) integrated in the mounting rail or separately through the clamp-connection. The InRailBus allows removal of individual modules without interrupting the bus signals.

Communication Interfaces

The CAN-CBX-CPU5201 comes with a 100BASE-TX ETHERNET interface that is accessible via an RJ45 plug in the front, and includes the ability to connect a USB device (e.g. printer, mem-

ory stick) on the front side USB 2.0 Host interface running with full-speed. esd electronics, Inc designed the two CAN interfaces according to ISO11898-2 high-speed layer and support bit rates up to 1 Mbit/s. One CAN interface is electrically isolated and is accessible via a 5-pole Combicon-style connector. The other CAN interface (optional electrically isolated) is connected to the InRailBus for local CBX-I/O expansion. A serial RS-232 interface for terminal and debugging is accessible via an RJ12 connector.

Software Support

esd electronics, Inc offers Linux or QNX 6.0 as operating systems with others available upon request. With the IEC61131-3 programming and run-time system CoDeSys, the controller can act as a PLC optionally.

For further information please visit
<http://www.esd-electronics-usa.com/EtherCat-Products.html>

growing with the
challenge

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Technical Specifications:

Micro controller + Memory:	
Micro controller:	PowerPCTM MPC5121, 400 MHz
Memory:	0.5 GB SDRAM, 1 GB NAND-Flash
Ethernet:	
Interface:	100BASE-TX, IEEE 802.3, RJ45
CAN:	
Controller:	2x Freescale MSCAN, ISO 11898-1
Interface:	2x high-speed, ISO 11898-2, max. 1 Mbit/s
Connector:	1x electrically isolated, 5-pin COMBICON style 1x InRailBus
USB:	
Interface:	USB 2.0 Host, Full-Speed, USB Type-A
Profibus-DP Slave: (Option)	
Controller:	VPC3+ Profibus-DP slave
Interface:	RS-485, max. 12 Mbit/s, DSUB-9f
General:	
Operating supply voltage:	typ. 24 V DC min./max.: 12 V DC / 32 V DC
Current consumption:	typ. 210 mA (at typ. supply voltage)
Ambient temperature:	Operational: -20°C to +60°C
Storage/transport:	-20°C to +70°C
Relative humidity:	Max. 95 % (non-condensing)
Dimensions [mm]:	22.5 x 112 x 113
Weight:	ca.160 g

Order Information:

Designation		order no.
CAN-CBX-CPU5201	Linux	C.3071.02
CAN-CBX-CPU5201/ DP	Linux, Profibus-DP-Slave Option	C.3071.03
CAN-CBX-CPU5201	QNX 6.x	C.3071.04

Please ask for EtherCAT master stack, CoDeSys PLC and further options

EtherCAT®



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