CAN-CBX-CPU5202
Smart Real-Time Controller with Graphic Interface

Graphic Interface With Touch Input
- *PowerPC™ MPC5121 with FPU, 400 MHz*
- *512 MB SDRAM, 1 GB NAND-Flash*
- *2D/3D graphics engine with PowerVR*

CANopen
EtherCAT®

Fast Communication Interface
- *2x CAN, 1x USB 2.0 Host*
- *100BASE-TX Ethernet*

Optional Features
- *EtherCAT-Master*

PowerPC™ Device
The CAN-CBX-CPU5202 is a stand-alone module with a powerful 400 MHz PowerPC, 512 MB DDR2-SDRAM, 1GB NAND-Flash and RTC with battery backup on-board.

Graphic Interface
The graphic interface uses an integrated Floating Point Unit (FPU) and an integrated 2D/3D graphics engine with Power VR vector processing unit.

Communication Interfaces
The CAN-CBX-CPU5202 comes with a 100BASE-TX ETHERNET interface that is accessible via an RJ45 plug in the front. An USB device (e.g. memory stick) can be connected on the front side USB 2.0 Host interface running with 480 Mbit/s. The two CAN interfaces are designed according to ISO11898-2 high-speed layer and support bit rates up to 1 Mbit/s. One CAN interface is
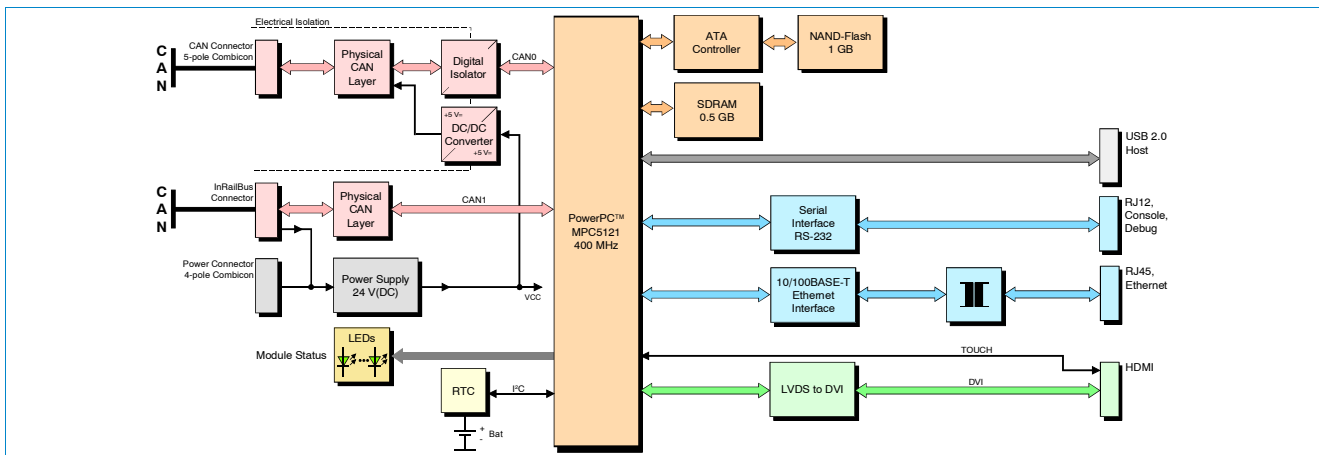
electrically isolated and is accessible via a 5-pole Combicon-style connector. The other CAN interface is connected to the InRailBus for local CBX-I/O expansion.
A serial RS-232 interface for terminal and debugging is accessible via an RJ12 connector.

Software Support
Linux or QNX 6.x are available as operating systems, others on request. With the IEC61131-3 programming and run-time system CoDeSys the controller can act as a PLC optionally.

(This product is under development. It will be available Q4 2013.)

Technical Specifications:

Microcontroller and Memory:	
Microcontroller	PowerPC™ MPC5121, 400 MHz
Memory	512 MB 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, Type-A, High-Speed (480 Mbit/s)
Graphic Interface	
Controller	Built-in 2D/3D graphics engine with PowerVR vector processing unit
Interface	HDMI interface for display and touch controller, Max. VGA (1024x768), 16-bit colors

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 ... +60 °C Storage/transport: -20 °C ... +70 °C
Relative humidity	Max. 95 % (non-condensing)
Dimensions [mm]	22.5 x 99 x 114.5 (without connectors)
Weight	150 g

Order Information:		
Designation		order no.
CAN-CBX-CPU5202	Linux	C.3072.02
CAN-CBX-CPU5202	QNX 6.x	C.3072.04

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