



esd electronics, inc.

HARDWARE • SOFTWARE • ENGINEERING

EPPC-405-UC

Embedded PowerPC with CAN and USB and Ethernet

- PowerPC 405EP, 133/200/266 MHz, up to 64 Mbyte RAM
- Ethernet for 10 and 100 Mbit/s
- 2 USB 2.0 host interfaces
- 2 RS-232 interfaces, 1 RS-485 interface
- 2 CAN interfaces
- Aluminum case for hat-rail mounting
- All connectors accessible at the front panel
- Power supply voltage 24 VDC
- Operating system Linux or VxWorks
- Option: CoDeSys programming and run-time system according to IEC61131-3

PowerPC Device

The EPPC-405-UC is a stand-alone PowerPC in a slim line aluminum case without fan cooling. The powerful IBM PPC405EP with 133 to 266 MHz enables a performance of up to 375 MIPS. The board is equipped with up to 64 Mbyte SDRAM, 1 Mbyte NOR-Flash, up to 128 Mbyte NAND-Flash and a CompactFlash slot.

Network Interfaces

The EPPC-405-UC comes with an ETHERNET interface for 10 Mbit/s and 100 Mbit/s networks. It is accessible as 10/100BaseT via RJ45 connector in the front panel. The EPPC-405-UC provides 2 CAN fieldbus interfaces based on SJA1000 CAN-controllers with transfer rates up to 1 Mbit/s. esd electronics, Inc. designed the EPPC-405-UC according to ISO 11898 with opto-isolation, Mini-Combicon connectors, 2 USB host interfaces and 3 serial interfaces (two RS-232 and one RS-485).



EPPC-405-UC

Software Support

The NOR-flash memory carries a universal boot loader (U-Boot) that enables the EPPC-405-UC to boot various operating systems from network, on-board Flash, or CompactFlash directly supporting Linux and VxWorks and others on request. esd electronics supports on board peripheral drivers. The EPPC-405-UC supports higher layer protocols such as CANopen as well as an available on-board web server. With the optional IEC61131-3 programming and runtime system CoDeSys, the EPPC-405-UC acts like a PLC. Please ask for our CoDeSys flyer.

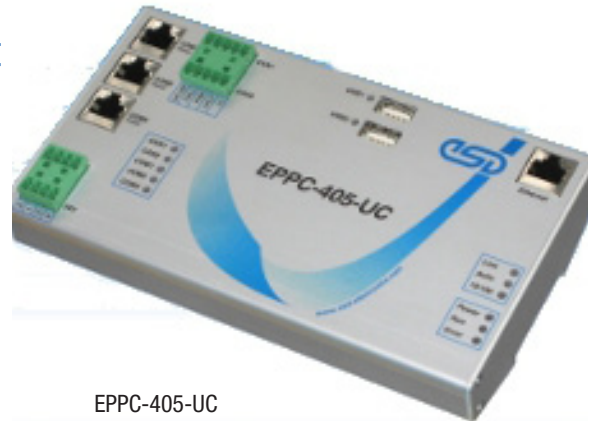
For further information please visit
<http://www.esd-electronics-usa.com/Embedded-Controllers.html>

growing with the
challenge

EPPC-405-UC

Embedded PowerPC with CAN and USB and Ethernet

- PowerPC 405EP, 133/200/266 MHz, up to 64 Mbyte RAM
- Ethernet for 10 and 100 Mbit/s
- 2 USB 2.0 host interfaces
- 2 RS-232 interfaces, 1 RS-485 interface
- 2 CAN interfaces
- Aluminum case for hat-rail mounting
- All connectors accessible at the front panel
- Power supply voltage 24 VDC
- Operating system Linux or VxWorks
- Option: CoDeSys programming and run-time system according to IEC61131-3



EPPC-405-UC

Technical Specifications:

Microcontroller and Memory:	
Microcontroller:	IBM PPC405EP, 133/200/266 MHz, 32 bit
Memory equipped:	32 or 64 MB SDRAM, 1 MB NOR-Flash (boot loader), 32 to 128 MB NAND-Flash EPROM
CompactFlash:	Type I, 3.3 V, .True IDE. mode, slot internally accessible only
Interfaces:	
ETHERNET:	10/100BaseT, IEEE802.3, RJ45-connector
Serial:	2x RS-232 at RJ45-connector, 1x RS-485 at RJ45-connector
CAN:	Controller SJA1000, CAN 2.0A/B, electrically isolated, 1 Mbit/s, ISO11898, Mini Combicon, Option: fibre optic interface
USB:	2x USB 2.0 host at 2x USB connector
General:	
Ambient temperature:	0...50 /C
Power supply:	24 VDC / 300 mA
Dimensions:	190 x 105 x 40 mm

Order Information:

Designation		Order no.
EPPC-405-UC	IBM PPC405EP, 200 MHz 2x RS-232, 1x RS-485, 2x CAN 2x RS-232, 1x RS-485, 2x CAN	I.2005.02
EPPC-405-UC-CoDeSys	CoDeSys programming system	I.2005.33
EPPC-405-UC-Linux	Linux operating system	I.2005.32
EPPC-405-UC-VxW	VxWorks operating system	I.2005.31

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

