



EPPC-405

Low-Cost 200 MHz PowerPC Computer

- PowerPC IBM 405GP, 375 MiPS, 200 MHz, up to 64 Mbyte RAM
- 10/100BaseT ETHERNET
- CAN & RS-232 interfaces
- Strong aluminium 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 is a stand-alone Power PC in a strong and compact aluminium case without fan cooling. The powerful IBM PPC405GP with 200 or 266 MHz enables a performance of up to 375 MIPS. The board is equipped with 16 or 64 Mbyte SDRAM, up to 8 Mbyte Flash and a CompactFlash slot to carry various memory cards. A non-volatile NVRAM enables the EPPC-405 to save valuable process variables during power off sequences.

Network Interfaces

The EPPC-405 comes with an ETHERNET interface for 10 Mbit/s and 100 Mbit/s nets. It is accessible as 10/100BaseT via RJ45 connector in the front panel. The EPPC-405 (I.2001.03) provides 2 CAN interfaces based on SJA1000 CAN - controllers with transfer rates up to 1 Mbit/s. Designed according to ISO 11898 with electrical isolation and DSUB9 connectors, the EPPC-405 has CAN and RS-232 interfaces. The EPPC-405 (I.2001.02) provides 2 serial interfaces as RS-232 via RJ11 and DSUB9 connector. With 2 serial interfaces only one CAN interface is equipped.



EPPC-405

Software Support\

The flash memory carries a standard ppcboot and enables the EPPC-405 to boot various operating systems from network, onboard Flash or CompactFlash. Thus Linux and VxWorks are directly supported with full support of on-board drivers by esd, others on request. There is also a bunch of higher layer protocols like CANopen, DeviceNet as well as an on-board web server available. With the IEC61131-3 programming and run-time system CoDeSys the EPPC-405 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

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Technical Specifications:

Microcontroller and Memory:	
Microcontroller:	IBM PPC405GP, 200/266 MHz, 32 bit
Memory equipped:	from 4 M x 32 bit SDRAM (16 MB), up to 16 M x 32 bit SDRAM (64 MB), up to 8 M x 8 bit Flash EPROM (1,2,4,8 MB), 32 KB NVRAM
CompactFlash:	Type I, 3.3 V, .True IDE. mode, slot internally accessible only
Interfaces:	
ETHERNET:	10/100BaseT, IEEE802.3, RJ45-connector
Serial:	1x RS-232 at RJ11-connector, 1x RS-232 at DSUB9 (only at I.2001.02)
CAN:	Controller SJA1000, CAN 2.0A/B, electrically isolated, 1 Mbit/s, ISO11898, DSUB9, option: fiber optic interface
DeviceNet (Option):	Acc. to DeviceNet Communication Model and Protocol rev. 2.0
General:	
Ambient temperature:	0...50 /C
Power supply:	24 VDC / 300 mA
Dimensions:	105 x 55 x 200 mm

Order Information:

Designation		Order no.
EPPC-405	IBM PPC405GP, 200 MHz 16 MB SDRAM, 4 MB Flash, 2x RS-232, 1x CAN	I.2001.02
EPPC-405-2	As I.2001.02, but 1x RS-232, 2x CAN	I.2001.03
EPPC-405-DN	As I.2001.02, but 1x RS-232, 1x CAN, 1x DeviceNet	I.2001.04
EPPC-405-LW	As I.2001.02, but 1x RS-232, 1x CAN, 1x CAN fiber optic interface	I.2001.05
EPPC-405-VxW	VxWorks operating system	I.2001.31
EPPC-405-Linux	Linux operating system	I.2001.32
EPPC-405-CoDeSys	CoDeSys programming system	I.2001.33



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