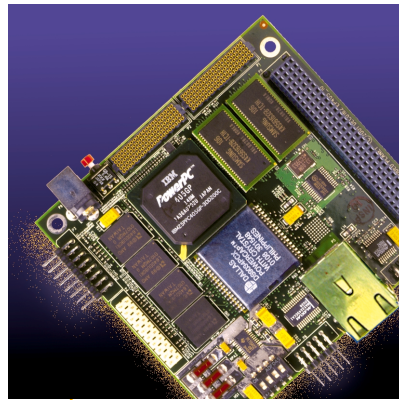


d¹
1.
design.

d²
2.
develop.

d³
3.
deploy.

EP405 IBM PowerPC 405GP



The EP405 computing engine takes advantage of the high performance capabilities of the IBM Microelectronics PowerPC 405GP processor. By integrating all of the features of this processor onto a single board, the computing engine reduces Time-To-Market and increases product reliability. Scalable in size and flexible in configuration, they provide a production-ready platform for tomorrow's networks.

Design your product using our EP405 computing engine and leverage the power of the IBM 405GP processor.

Develop prototypes and applications with Linux or your preferred RTOS solution and the boot loader, diagnostics and utilities in our PlanetCore software.

Deploy our proven computing engines and software in your end product and meet your networking application market requirements on time and within budget.

design.

The next generation of Internet infrastructure.

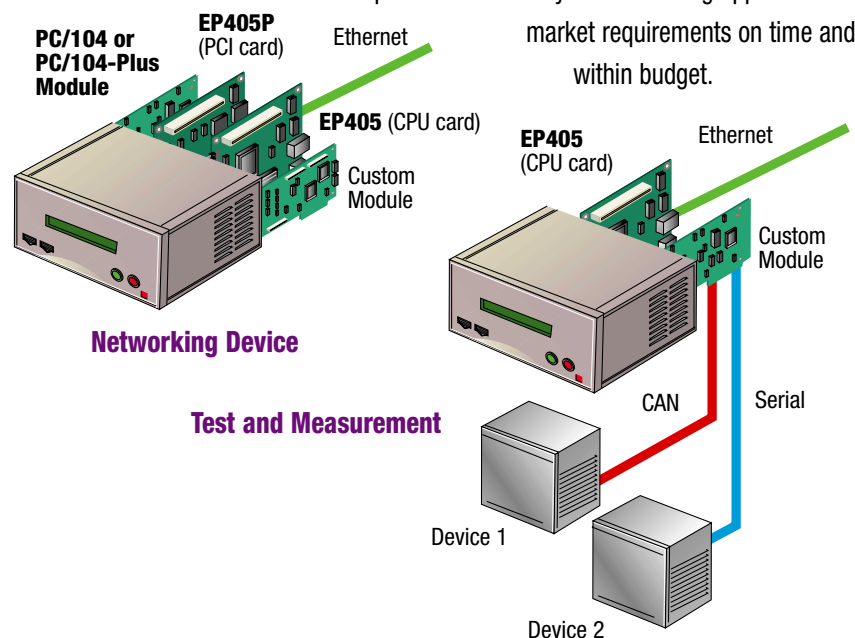
develop.

Your products based on our platform.

deploy.

Your solution faster.

The EP405 with the PowerPC 405GP can be used in many applications including networking and test & measurement. Standard PC/104 and PC/104-Plus modules can be used as well as custom modules.



*Software and hardware working together,
helping build the growing Internet Infrastructure.*



design.

The next generation of Internet infrastructure.

develop.

Your products based on our platform.

deploy.

Your solution faster.

EP405 IBM PowerPC 405GP**Design, Develop, Deploy.**

The EP405 is a PC/104 mechanical form factor computing engine and includes the PC/104-Plus connector. The EBC Bus connection allows direct access to the 405GP processor features so the EP405 can be integrated directly into your design.

Features of 405GP

- Supports 200 and 266 MHz 405GP processors
- GPIO, Two UARTs, one I2C
- Interrupt Controller with up to 12 External Interrupts
- Integrated SDRAM controller and PCI I/F
- Fast Ethernet interface
- High Performance + Low Power Consumption

Features of EP405

- Expandable EBC bus for direct connection to the 405GP
- SDRAM: 16, 32 or 64MB
- Flash: 4, 8, 16 or 32MB
- NVRAM: 0, 32, 128 or 512Kb; RTC
- PC/104-Plus connection and PC/104 mechanical form factor
- JTAG & Trace Interface
- CD-ROM with design, reference, and development information

Optional PC/104-Plus Expansion Module

- Use existing "off the shelf" PC/104 and PC/104-Plus modules
- PCI Controller and Arbiter
- IDE interface
- Super I/O interface (keyboard, mouse, extra serial port, parallel port and FDC)

Environmental

- Temperature: 0°C to + 70°C operating (extended temperature available)
- Altitude: 5000m
- Humidity: 10% to 80%
- Vibration: 2Gs RMS, 20-2000Hz

Peripheral Interfaces

- EBC Bus interface allows all features of the PowerPC to be brought out to your product or I/O module
- PC/104-Plus for PCI
- 100BaseT Fast Ethernet
- Debug and JTAG port
- Two RS232 ports

Software Specifications

- PlanetCore: multi-protocol boot loader, flash burner. Boots pre-installed OS from flash, or loads an OS via serial or Ethernet
- PlanetCore also includes a licensable diagnostics and utilities package for faster application development
- Host environment and support package for MontaVista HardHat Linux

Contact Embedded Planet:

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Rev. 7/01

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helping build the growing Internet Infrastructure.*

