EMBEDDEDPLANET™

Embedded Planet EP405

Features:

- AMCC 405GP and 405GPr processors
- PC/104+ compliant PCI bus connector
- 33MHz SYNC or 66MHz ASYNC PCI
- EBC Bus for direct signal access to the processor
- SDRAM 16, 32, 64 or 128MB with ECC
- Flash 4, 8, 16, 32 or 64MB
- NVRAM 32, 128 or 512kb; Real-Time Clock
- 10/100BaseT Ethernet interface

- Two RS-232 serial ports
- Serial EEPROM I2C
- Serial Temperature I2C
- JTAG RISCWatch and RISCTrace support
- Dipswitch 4-position slide switch
- BCSR Control and Status Registers
- 5V operation (draws 1.5A max)
- Mechanical 3.550x3.775" (90x96 mm)
- Operating Range -40°C to +85°C
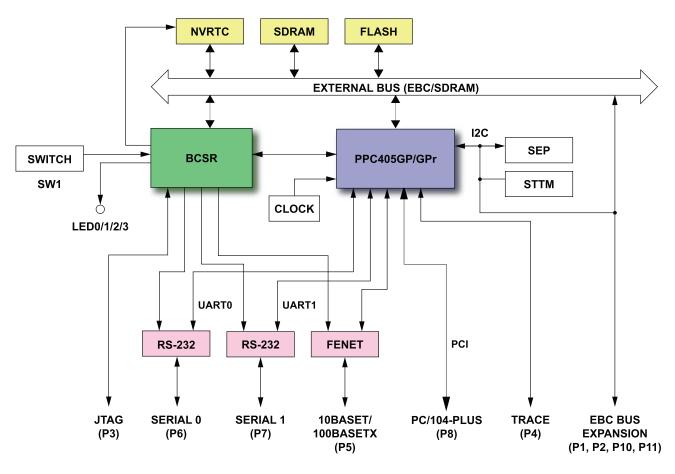
Flexible Single Board Computer

The EP405 single board computers take advantage of the AMCC 405GP and 405GPr PowerPC processors. By integrating all of the features of the PowerPC into a production ready embedded development system, the EP405 reduces Time-To-Market and increases product reliability for Communications, Military/Aerospace, Medical, and Industrial applications. The EP405 single board computers include the EBC bus that provides direct access to the 405 processor signals for additional I/O expansion.

Product Options

Single Board Computer includes a cable kit, power supply, and CD with complete documentation. Board Development Kit includes processor bus breakout debug boards, PDF schematics, and support. Design Kits are available with schematic and firmware source. Embedded Planet provides customization and integration services. Production board population options can be configured to match customer requirements.

Block Diagram

NVRTC **SDRAM** **FLASH**

EXTERNAL BUS (EBC/SDRAM)

SWITCH
SW1

BCSR

PPC405GP/GPr

I2C

SEP

STTM

LED0/1/2/3

CLOCK

UART0 UART1

PCI

RS-232 **RS-232** **FENET**

JTAG
(P3)

SERIAL 0
(P6)

SERIAL 1
(P7)

10BASET/
100BASETX
(P5)

PC/104-PLUS
(P8)

TRACE
(P4)

EBC BUS
EXPANSION
(P1, P2, P10, P11)

Software and Development Tools

Linux and VxWorks BSPs are available from Embedded Planet. The BSP development CDs come complete with documentation, source code, pre-compiled images, build files and tools.

INTEGRITY BSP is available from Green Hills Software. Other RTOS options are also available.

Embedded Planet PlanetCore firmware is provided with each module and includes a Bootloader, Flash Burner, and Diagnostics. Download and run applications via Ethernet or serial, test board hardware, and burn images to Flash.

Complete line of low level and application level TCP/IP stack and protocols code is available.

Contact Embedded Planet sales:
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