

Features

- AMCC (IBM) PPC405GPr processor
- 404 MIPS @ 266 MHz
- 64 MByte SDRAM
- 8 MByte Flash
- 128 kByte SRAM battery backed up
- Real Time Clock
- Fast Ethernet port
- Two RS-232 serial ports
- CompactFlash socket
- Four TTL Inputs with four push buttons
- Four TTL Outputs with four LEDs
- Dual Serial-ATA controller



The **KSBC-0405** is a Single Board Computer base on the AMCC (IBM) PPC405GPr processor at 266 MHz. It is designed for evaluation platform of Linux by ECRIN software and training.

Standalone form factor

The KSBC-0405 is ready to use as a system main board or for embedded applications. A metal enclosure is available on request.

User interface

The KSBC-0405 provides a convenient system setup and monitoring with four LED display and four push buttons located on-board. Those LEDs and buttons are also connected to 4 TTL input and 4 TTL output available on a 10-pin connector

Storage Interface

One CompactFlash socket is available for one true IDE card intended for user storage purpose.

Communication links

The KSBC-0405 unit offers a variety of on-board I/O. One Fast Ethernet ports support up to 100 Mbps communication for network applications. Two RS-232 asynchronous serial ports are available for console or general purpose operations.

Serial-ATA controller

A dual S-ATA interface is provided for storage purpose.

Peripheral Bus Interface

Add-on devices can be connected to the 16-bit peripheral bus interface

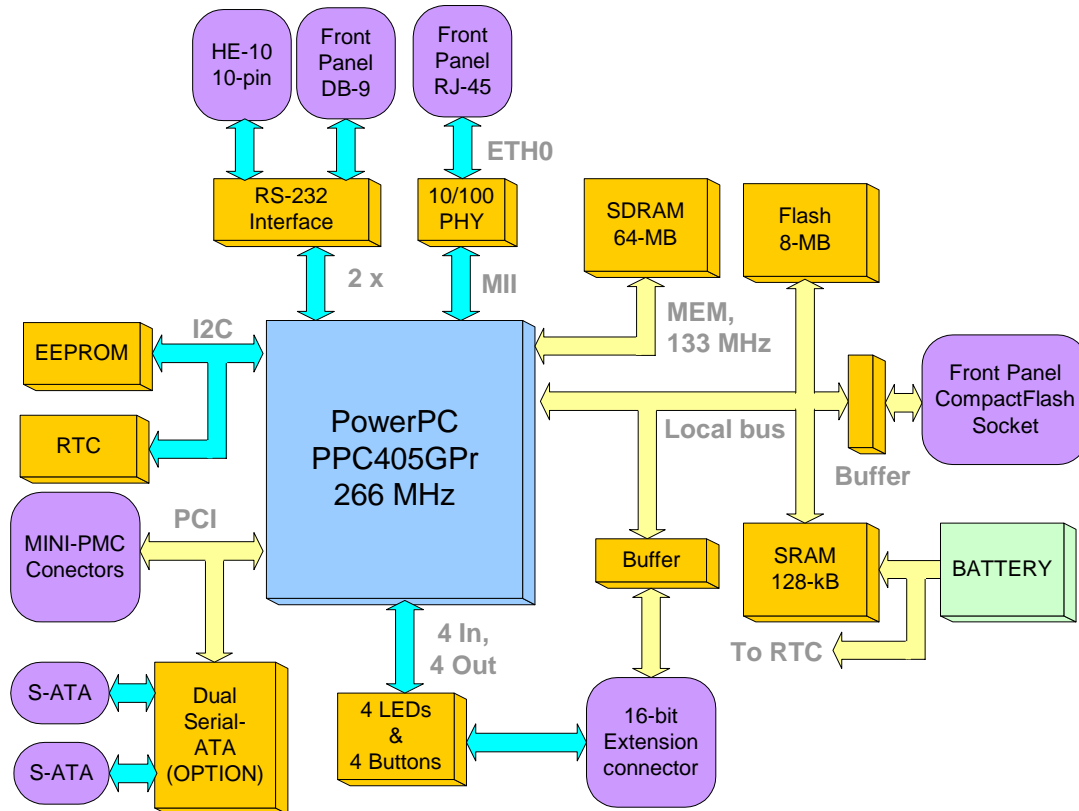
PCI Bus Extension

The KSBC-0405 supports an on-board MINI-PMC™ mezzanine module connected to 32-bit 33/66 MHz PCI bus.

Software

Developers can take advantage of the KSBC-0405 power and performance when deploying applications based on open-source Linux™ operating system.





Local Processor

- PowerPC® AMCC PPC405GPr
- 404 MIPS @ 266 MHz

On-Board Memory

- 64 MByte SDRAM, PC133
- 8 MByte FLASH
- 128 kByte SRAM battery backed up
- 8 kbit EEPROM on I2C
- One CompactFlash socket

Extension Bus Interface

- Two chip select
- 16-bit data & 8-bit address

System I/O

- 4 TTL Inputs (+ Push button)
- 4 TTL Outputs (+ LED)
- 1 Real Time Clock
- Dual S-ATA controller

Communication port

- 1 Fast Ethernet port
- 2 RS-232 serial port

Mini-PMC Interface

- 32-bit, 33/66 MHz

Environmental

Commercial	0 to +55 °C
Airflow requirement	0 CFM
Relative Humidity	0 to 90 % (non-cond.)
Altitude	0 to 10'000 ft

Power Requirements

Input voltage	+5V to +24V
Power consumption	3 W (typ)

Mechanical

Dimension	160 x 160mm
Weight	145 g
Enclosure	Available on request

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