

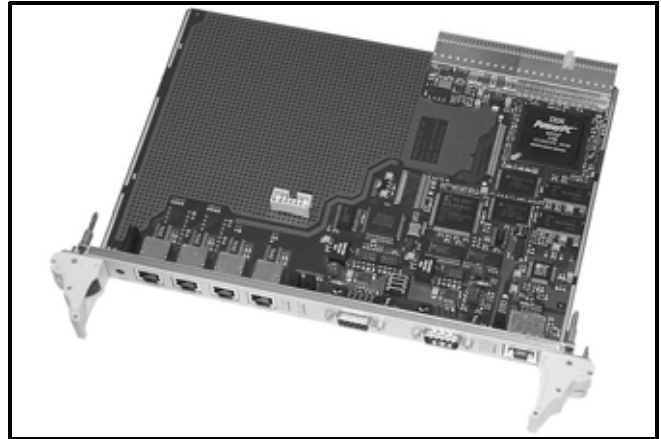
CPCI-405-6

CompactPCI PowerPC with ETHERNET, CAN and Serial Interfaces

- PowerPC IBM 405GP
- 10/100BaseT ETHERNET
- two CAN interfaces
- four serial interfaces: 2x RS-232 and additional 2x RS-232 or optional 2x RS-422 or RS-485 or TTY-passive interfaces
- CompactFlash slot (option)

CompactPCI PowerPC Board

The CPCI-405-6 is a CompactPCI board in 6U format. The powerful IBM PowerPC 405GP microprocessor with 200 MHz (max. 400 MHz with PPC405GPr as an option) enables a performance of up to 375 MIPS. The CPCI-405-6 acts as a CompactPCI-target adapter. A mounting option as a CompactPCI-host is available. The board is equipped from 16 to 128 Mbyte SDRAM, up to 8 Mbyte Flash and an optional CompactFlash slot to carry various memory cards. A non-volatile NVRAM enables the CPCI-405-6 to save valuable process variables during power off sequences.

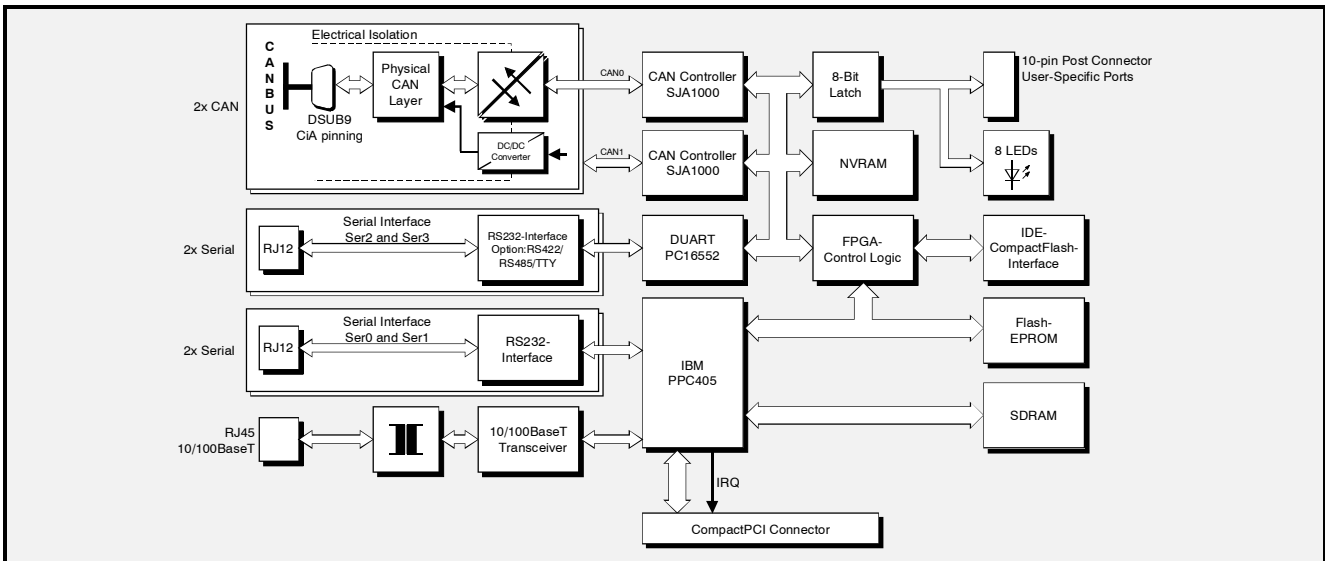


Network Interfaces

The CPCI-405-6 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 CPCI-405-6 provides two CAN interfaces based on SJA1000 CAN controllers, designed according to ISO 11898 with electrical isolation and DSUB9 connectors (one male one female). Both CAN allow data transfer rates of 1 Mbit/s. The four serial ports are available as RS-232 via RJ12 connectors, two of the ports are optionally available as RS-422, RS-485 or TTY-passive.

Software Support

The flash memory carries a standard boot monitor U-Boot* and enables the CPCI-405-6 to boot various operating systems from network, on-board 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 choice of higher layer protocols like CANopen available.



Technical Specifications:

CompactPCI interface and microcontroller:

Microcontroller: IBM PPC405GP, 200 MHz, 32 bit
Memory equipped: from 4 M x 32 bit SDRAM (16 MB), up to 32 M x 32 bit SDRAM (128 MB), up to 8 M x 8 bit Flash EPROM (1,2,4,8 MB), optional 32 KB NVRAM

Interfaces:

ETHERNET: 10/100BaseT, IEEE802.3, RJ45-connector
Serial: 4x RS-232 at RJ12, optional: 2x RS-422, RS-485 or TTY-passive
CAN: 2x CAN, controller SJA1000, CAN 2.0A/B, electrically isolated, 1 Mbit/s, ISO11898, DSUB9 connectors
CompactFlash: optional IDE-CompactFlash interface

General:

Ambient temperature: 0...50 °C
Humidity: max. 90 %, non-condensing
Power supply: 5 V / 250 mA, 3.3 V / 200 mA
Connectors: CAN: 2x 9-pole DSUB (1x male, 1x female)
 Serial: 4x RJ12
 10/100BaseT: 1x RJ45
 optional: CompactFlash slot

Order information:

Designation	order no.
CPCI-405-6	CompactPCI-target adapter, IBM PPC405GP, 200 MHz, 16 MB SDRAM, 4 MB Flash I.2306.52
CPCI-405-VxW	VxWorks operating system I.2306.31
CPCI-405-Linux	Linux operating system I.2306.32