

CPCI-750

CompactPCI PowerPC with ETHERNET and CAN

- PowerPC IBM 750FX with up to 1850 DMIPS
- Giga ETHERNET 10/100/1000BaseT
- CAN & RS-232 interfaces

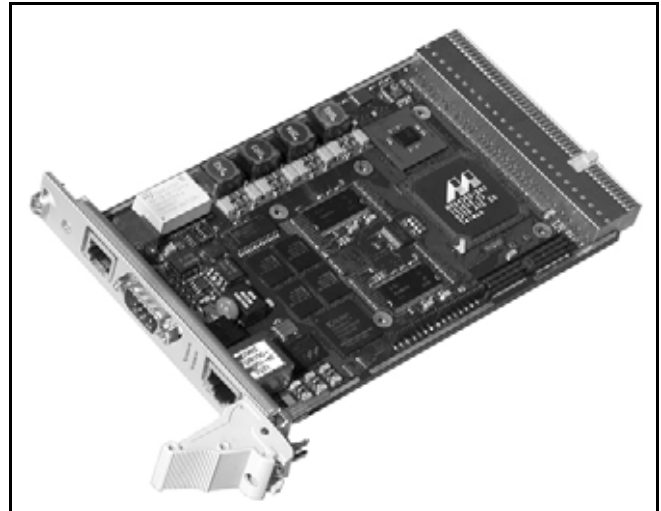
CompactPCI PowerPC board

The CPCI-750 is a CompactPCI board in 3U format. The powerful IBM PPC750FX with 733 or 800 MHz enables a performance of up to 1850 DMIPS. With on-board PCI-arbiter and PCI-clock distributor it acts as a CompactPCI host. The board is equipped with 64 to 512 Mbyte DDR-SDRAM with ECC and 64 Mbyte Flash. A non-volatile NVRAM/RTC enables the CPCI-750 to save valuable process variables during power off sequences.

Network Interfaces

The CPCI-750 comes with an ETHERNET interface that is accessible as 10/100/1000BaseT via RJ45 connector in the front panel. The CPCI-750 provides a CAN interface based on a SJA1000 CAN controller. It is designed according to ISO 11898 with electrical isolation and a DSUB9 connector and allows data transfer rates of 1 Mbit/s.

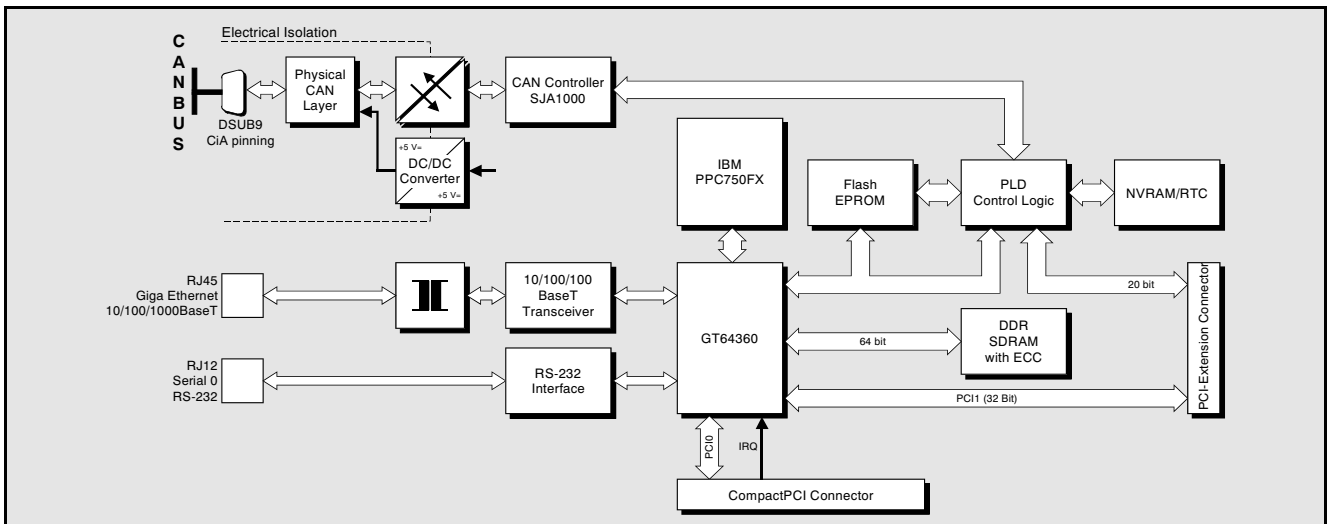
A serial ports is available as RS-232 via RJ12 connector.



Software Support

The Flash memory carries the standard 'U-Boot' program that enables the CPCI-750 to boot various operating systems from network or on-board Flash.

Thus Linux, RTLinux 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 as well as an on-board web server available.



Technical Specifications:

CompactPCI interface and microcontroller:

Microcontroller: IBM PPC750FX, 733/800 MHz, 32 bit
 Memory equipped: from 8 M x 64 bit DDR SDRAM (64 MB) up to 64 M x 64 bit DDR SDRAM (512 MB), 32 M x 16 bit Flash EPROM (64 MB), 32 KB NVRAM

Interfaces:

ETHERNET: 10/100/1000BaseT, IEEE802.3, RJ45-connector
 Serial: 1x RS-232 at RJ12
 CAN: controller SJA1000, CAN 2.0A/B, electrically isolated, bitrate up to 1 Mbit/s, ISO11898, DSUB9 connector

General:

Ambient temperature: 0...50 °C
 Humidity: max. 90 %, non-condensing
 Power supply: 5 V / 3A, 3.3 V / 600 mA
 Connectors: CAN: 9-pole DSUB (male)
 Serial: RJ12
 10/100BaseT: RJ45

Order information:

Designation		order no.
CPCI-750	CompactPCI host CPU, IBM PPC750FX, 733 MHz 256 MB SDRAM, 64 MB Flash	1.2402.02
CPCI-750-VxW	VxWorks BSP/adaption	1.2402.31
CPCI-750-Linux	Linux BSP/adaption	1.2402.32