

M P P • PC for Motor Test Bench

CPCI-system with measurement engineering

RF-proof rack 19"/4U/84HP; front panel with 8,4" LC-TFT-Display; matrix encoder, membrane keyboard 34 keys; modular IPC in a sub-rack 3U; CPCI bus; Pentium M 1,8GHz; Ethernet, Fieldbus, digital/analog boards for measurement engineering.

APPLICATION

The **MPP** was designed for modular control applications of motor test benches with demanding requirements. Highlights of the development is acquisition and processing of measuring data using a high-performance CPU. The system also contains a comfortable man-machine-interface and a master function communicating with several slaves. The system is mounted inside a 19" switching cabinet.



DESCRIPTION

The **MPP** consists of a sub rack 19"/3U/84HP equipped with a CPCI-backplane (8 slots) and a power supply 24V DC or 85-265V AC INPUT, + 5V and +12V DC OUTPUT. The CPU board contains an INTEL Pentium M 1,8GHz with 2MB of L2 cache and a RAM memory of 512MB (333MHz DDR RAM); 32MB Radeon R7000 based AGP video controller (DVI); 3xUSB 2.0; Gigabit+100MBit channel Ethernet; 2xCOM configurable RS232 or RS485 and PS/2 mouse/keyboard.

A 2,5" harddisk ranging from 40 to 100 GB is available as well as a CF drive (4GByte flash module). The backplane offers space for a maximum of 7 peripheral boards partly occupied by digital and analog peripheral boards. All connectors are mounted in 19" plates.

The frontplate includes an 8,4" LCD with 800x600 pixel, 400cd/m² of brightness displaying 256K colors. The front is covered by a resistive touchscreen. The 34 key membrane keyboard is supported by a matrix controller. Also there are 3 special potentiometers with zero at 180° angle of rotation and a spring return from both sides. The 24VDC power supply provides +5V and +12VDC outputs. The rear plate of the rack contains several PCBs with soldered connectors in order to avoid ribbon cables.

OPTIONS

The CPU power is changable from 1,6-2GHz. Also the RAM memory may be increased up to max. 1,5GByte; an adapter with a second CF memory is available and the O.S. WIN XP or XPe may be installed "ready to run".

HIGHLIGHTS

- 8,4" TFT-LCD, SVGA 800x600 pixel, 400cd/m², 256K colors; contrast 500:1; LVDS interface.

- membrane keyboard, 34 keys, matrix encoder, 3 special potentiometers with spring return.

- Integrated CPCI bus board, CPU selectable: Intel Pentium M 1,2GHz up to 2,0 GHz.

- Bootable CF disk, PC card drive and/or 2,5" hard disk; digital and analog I/O-boards.

- Power supply: 24VDC or 85-265VAC; operation temperature 0...50°C; all connectors on rear side.

- Operation system WIN XP installed. RTOS, WIN XP embedded or Linux on request.

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