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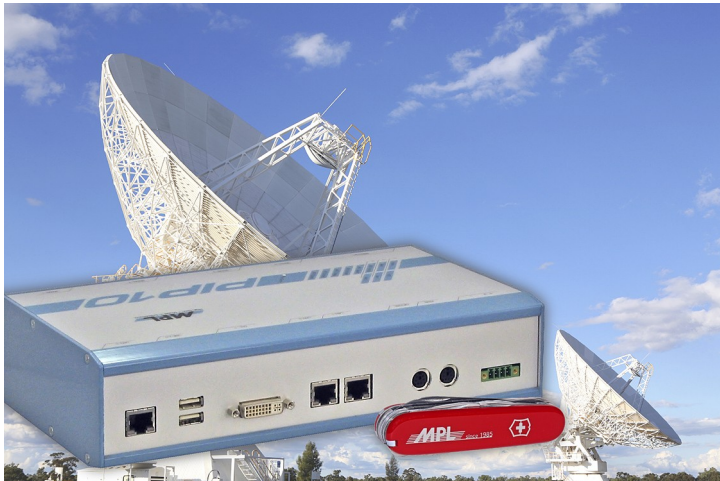
Rugged Embedded PC with 3 Gigabit Ethernet

CPU power selectable from Pentium M 1.8 GHz to Celeron M 1.0 GHz!

MPL AG complements their popular fanless PIP product family with 3 new models. Like all PIP products they strongly differentiate to the commonly known IPC through a unique concept. The differences start with the PCB design & construction, the EMI/RFI protection that are on board and within the housing, the selection of components from Embedded programs to achieve a long term availability, and last but not least the extreme low power consumption.

The new products called PIP11-E, PIP10-E and PIP9-E, are now available. They are based on low power Pentium-M or Celeron-M CPUs from Intel's Embedded program which guarantees long term availability. The CPUs are soldered on board and therefore offer highest ruggedness and best reliability. Further these CPUs offer either 2MB or 512kB internal L2 cache.

Integrated on-board are numerous features like 3 independent Gigabit Ethernet ports, 4 serial ports (choice of RS232, RS485, half & full duplex, fully isolated,...), multiple USB 2.0 ports and much more. If desired a WLAN module, CAN interface, Digital I/O or even a UPS can be installed inside the housing.



Another distinction is the fact that the rugged PCs are available with 512MB ECC protected SDRAM memory soldered on board. Ideal in areas where vibration, temperature, and/or high reliability are an issue. A memory socket allows you to install additional ECC or standard DDR RAM modules of up to 1GB, for a total of up to 1.5GB RAM.

The design goal to create a masterpiece which is compact, maintenance free, noiseless, and rugged has been fully achieved with the product. Of course all PIPx-E are designed to operate under extreme as well as normal conditions without the need for fans and without derating or throttling the CPU.

The new models are extremely flexible and easy to expand over PC/104, PC/104-Plus, PMC or PCI. Further MPL offers various add-on options and

several housings (MIL and open frame) for all needs. Basically any configuration you require can be provided.

The PIPs are powered with a single power supply between 8 - 28VDC (optionally up to 48VDC for mobile applications). There is no need for a costly multi voltage power supply.

The PIP-E is the right choice where high networking abilities are used and a reliable, rugged computer is needed. The products can be supplied according to the customer requirements and needs. Also depopulated versions with customized housings and/or special BIOS settings are available. Talk to us or a MPL distributor near you.

For more information about the fanless, rugged, embedded PCs with 3 Gigabit Ethernet ports and the general PIP concept please contact us via email or consult our Home Page (www.mpl.ch).