

Dättwil, April 2007

PIP Concept now with Pentium-M 1.8GHz CPU

The only compact Industrial PC with on-board soldered ECC RAM and CPU.

In addition to the existing PIP product family with more than 20 different models, MPL introduces the Pentium M 1.8GHz solution with 2MB internal L2 cache. The PIP products can be operated as standard PCs but they are still very different from the commonly known PCs and Industrial PCs. Those are generally based on the "Intel Reference design", the design for commercial PCs. The PIP product differentiation includes key issues like the PCB design and construction, the EMI/RFI protection on-board and within the housing, the selection of long-term available components as well as features that are unique in this industry.



Unique in the PIP11 is the on-board soldered ECC RAM. Additionally a socket is available where the ECC memory can be expanded. Also the CPU is soldered directly on-board and not as typically done at other IPC over a CPU socket.

In addition to the typical PC interfaces the solution offers special features like FireWire, USB2.0, 10/100/1000 Ethernet, and 4 x Serial ports. Also a powerful 3D graphic engine with a DVI-I connector is available and dual panel support can be added. The PIP11 is ready for any mass storage devices including two SATA ports. Within the package, the solution can be easily expanded with Audio, CAN, Digital & Analog I/Os, UPS, WLAN or galvanic isolation.

Unlike any other HW, the PIP Family is extremely flexible. There are several housings (IP51 & IP67) in different colors available. The solution is expandable over its internal expansion PC/104-Plus bus or via PMC and/or PCI allowing to add any required additional functionality even for single

quantities. Thanks to the specific design the PIP family can be operated in housings without any openings, even IP67 housings can be offered without no need for heat-pipes or fans.

The Thermal Design Power (TDP) of the PIP11 solution is done in such a way that it can be operated with maximum CPU load at the rated temperature (-20°C – 60°C ambient temperature) without CPU de-rating. Fanless extended temperature PIP11 solutions are available too.

The PIP11 can be powered with a single low power consumption power supply between 8 - 28VDC (optional up to 48VDC)

The product is well suited for any application independent whether it's being used for hospitals, defense, automation, or mobile applications.

The PIP11 is the best choice where a long-term available, reliable and/or rugged computer is desired. The solution can be assembled according to the customer requirements and needs, OEM and depopulated versions are offered as well. The quality design and manufacturing of the PIP is all being done at MPL Switzerland. If you have any question, please talk to us or a MPL distributor near you.

For more information about the fanless Pentium-M and the PIP Concept please contact us via fax or email, or consult our homepage (www.mpl.ch).