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Fanless complete Core™2 Duo Power system The solution for harsh applications and long-term projects

The new PIP22 of MPL AG "High-Tech Made in Switzerland" is as all other models of the PIP series fully compatible to commercial Desktop-PCs and in addition offers all features an Industrial PC needs. Within the conception of the PIP22 the focus again has been made to the extreme low power consumption, the possibility for an operation in extended temperature and although providing highest computing power and longest availability (5 years and longer).

The new very powerful and versatile embedded PC is the ideal choice for applications that require a product that is long-term available, reliable, rugged and offers best cost of owner ship. The PIP22 is equipped with a low power Intel Core™2 Duo processor L7400 out of the embedded roadmap of Intel. The PIP22 is specifically designed to withstand extreme conditions (cold, heat, dust, shock, vibrations, maintenance-free, unmanned, ...), hence it still can be operated as a common PCs.



Unrivaled is the on-board soldered CPU and SDRAM, which increases the MTBF values of the system. Through the additionally memory socket up to total 3 GB memory can be installed.

The PIP22 solution offers features like dual Gigabit Ethernet, FireWire, USB2.0 and serial ports (RS232/422/485). Further a powerful 3D graphics engine is integrated as well. All interfaces are available on standard connectors. On request also solutions with lockable headers are available. The PIP22 is ready for any mass storage devices with PATA or SATA interface. Within the packaging, the solution can easily be expanded with Audio, CAN, digital & analog I/Os, UPS, WLAN, GPRS, UMTS,

Unlike any other PC in the market, the PIP Family is extremely flexible. There are several housings (IP51 & IP67) in different colors available. The

solution is expandable over its internal expansion buses (PC/104-Plus, PMC, PCI, PCI-Express Minicard) allowing to add any required additional functionality even for single quantities.

The Thermal Design Power (TDP) of the PIP22 solution is done in such way that it can be operated with maximum CPU load from -40°C up to +65°C ambient temperature. This wide temperature range is reached without CPU de-rating and the need of a fan or special openings. The key to reach those range is the low power consumption of typically 30W. As all PIPs the unit can be powered with an input voltage between 8 - 28VDC or optional 18 - 48VDC.

The product is well suited for any application independent whether it's being used for control, measurement, display or mobile applications. Shortly said it is a real Industrial PC designed for applications where a robust, rugged and reliable system is needed. 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 100% being done at MPL in Switzerland. A product that is practical and multifunctional like a Swiss army knife!

For more information about the fanless Core™2 Duo and the PIP Concept please contact us via fax, email, or consult our homepage (www.mpl.ch).