

The Unique & Universal Embedded Computer Solution with 9th Generation Intel CPU

With the PIP40 solution, MPL presents a new fanless embedded computer family based on the 9th Generation Intel processors. Decades of experience (since 1985) in developing and producing extremely robust embedded solutions have made the PIP40 Family possible.

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The PIP40 Family is based on the embedded 9th Generation of Intel CPUs with an availability until 2034. All variants are built in a rugged industrial housing with DIN rail or flange mounting. Further options are IP67 enclosures and 19" rack solutions. The open frame version (CPU board on cooling plate) is best suited for installation in existing cabinets and tight areas. For applications with vibration, the solution can be supplied with lockable headers, M12, or D-38999 connectors. Customized solutions are MPL's strength!

Fit, Form and Function (FFF) of the PIP and the unmatched reliability are key arguments. Shock and vibration resistance and extended temperatures capabilities complete the rugged, long-term available PIP40 Family. The basic version is equipped with interfaces such as display port, DVI-D, USB 3.1, RS232/422/485.... Further expansions will be done over the numerous internal expansion interfaces such as mPCIe, m.2 or PCIe/104. WLAN, LTE, GPIOs, CAN, 1553, ARINC... can quick and easily be integrated into the systems. This makes the solution flexible and cost efficient customizable. As mass storage, SATA, mSATA, m.2 and NVMe can be chosen.

Does your application need TPM 2.0 (Trusted Platform) support? No issue, it can simply be enabled in the BIOS. The PIP40 Family can be put into various standby mode levels (even below 95 mW) and with Wake On LAN (WOL), the system can also be started. The operational power consumption is between 5 and 90W and the power consumption level can be limited. This enables the use for power savings as well as for power hungry applications. For vehicle application, the PIP40 Family has a specific ignition feature.

For quick prototyping MPL can provide from stock and the same solution later in a specific MIL solution. Allowing to design a customized solution and parallel develop and test the application and SW. This will expedite your time to market.

All MPL products are designed for long-term availability and the PIP40 Family will be available for at least 10 years. MPL's own component stock guarantees repair for up to 20 years. Extended temperature ranges can be fulfilled and are tested in MPL's own climatic chambers according to customer requests.

The PIP40 Family is 100% engineered & manufactured by MPL AG in Switzerland and meets or exceeds the most common standards. Particular references are: EN 55022, EN 55024, EN 61000, MIL-STD-461E, EN 60068, EN 50155, MIL-STD-810G, EN 60601, EN 60950, CE, IEC 60945, IACS and E10.

For more specific information, please visit www.mpl.ch/t24g0.html or contact MPL AG directly.

About the Company

MPL AG is located in Switzerland and was founded in 1985. Since the beginning, MPL stands for robust designs, long-term availability, low power consumption, and fanless concepts. The products are designed from scratch to succeed in extended temperature and meeting the high demands of rugged environments.

Contact information

Remy Lörtscher
MPL AG Täferstrasse 20
CH-5405 Dättwil, Switzerland
Phone: +41 56 483 34 34
info@mpl.ch - www.mpl.ch

