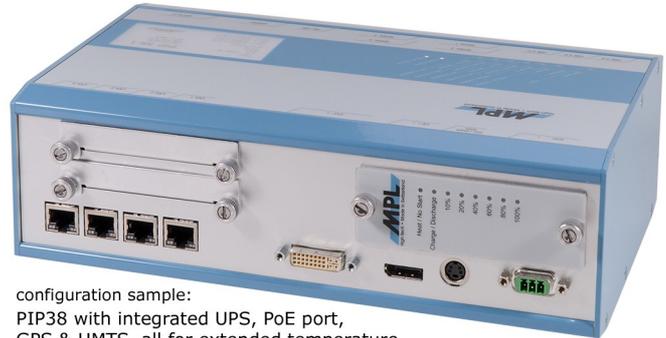


## New Rugged and Reliable Intel i7 Solution with Long-term Availability

MPL AG, one of the key manufacturer of rugged embedded computers, released a new system with Intel Quad Core i7 processor. The new system called PIP38, is a highly integrated, compact, and robust solution, solely based on long-term and industrial temperature components, and is 100% designed and produced in Switzerland.

**Dättwil Switzerland, March, 17, 2016**

To insure the ruggedness of the solution, only Intel CPUs out of the embedded roadmap are being used. Processor, Chipset, as well as the ECC DDR3 memory chips are soldered on the board, allowing to conduct them direct to the housing for the best cooling without the need of heatpipes. MPL has been providing this unique cooling concept for more then 20 years on all embedded CPU boards. Also the PIP38 is designed such, that the Fit & Form remains the same as when the first PIP was introduced back in 1996.



configuration sample:  
PIP38 with integrated UPS, PoE port,  
GPS & UMTS, all for extended temperature

The PIP30 Family has specifically been designed to withstand extreme environments. **What does this mean?** check [www.mpl.ch/info/PIP30design.html](http://www.mpl.ch/info/PIP30design.html) for details!

The input of the PIP38 is reverse polarity and load dump protected. The input power range starts from 9VDC up to 36VDC, optionally up to 48VDC. The solution is designed such that an internal UPS system with battery can be added. If a galvanic separation is required due to standards e.g. for Marine or Mining applications, then this can be added internally as well.

The BIOS (Phoenix Technologies) features the latest technology and adheres to the evolving UEFI standard. MPL has access to the source code of the BIOS, allowing customization according to special requirements from the customer, independent if this a splash screen, password protection, or other requirements for your project or application.

The PIP38 comes with a large set of interfaces and leaves hardly any wishes open. The units come with four GigE ports, up to seven USB (3.0 and 2.0), up to four serial lines (RS232/485), PS/2, external SATA port and PCI-E port. Internally available are two SATA 3.0 and two SATA 2.0. The system comes with 4/8GB ECC DDR3 memory and can be expanded up to 12/16GB. The unit can easily be expanded over a wide variety of expansion ports like mPCIe (up to 6), PCI-104, PCI/104-Express, XMC, PMC, PCIe x16 even MXM.

The PIP38 solution meets your needs today and tomorrow, and will be available for many years. The solution is offered in the standard PIP housing as well as in the MIL housing or as open-frame. The solution has been tested and qualified for most severe standards like EN50155, MIL-STD-461E, MIL-STD-810G just to name a few. The complete solution can also be ordered for extreme temperatures like -40°C to 75°C.

For more information, please contact MPL directly or check out their website [www.mpl.ch](http://www.mpl.ch)

### *About the Company*

MPL AG is located in Switzerland in the town of Dättwil near Zurich. It was founded 1985 by Rudolf Hug. Since 1985, MPL AG has been developing and manufacturing industrial PCs (boards and systems) for tough industrial needs and industrial controls with highest quality standards. The success of the company is based on various unique solutions: a rugged, PC compatible industrial concept, long-term availability of our products, low power consumption, extended temperature range, and passive cooling concepts (fanless).

### **contact information**

Remy Lörtscher  
MPL AG  
Taefernstrasse 20  
CH-5405 Dättwil, Switzerland  
phone: +41 (0)56 483 34 34  
info@mpl.ch - [www.mpl.ch](http://www.mpl.ch)

