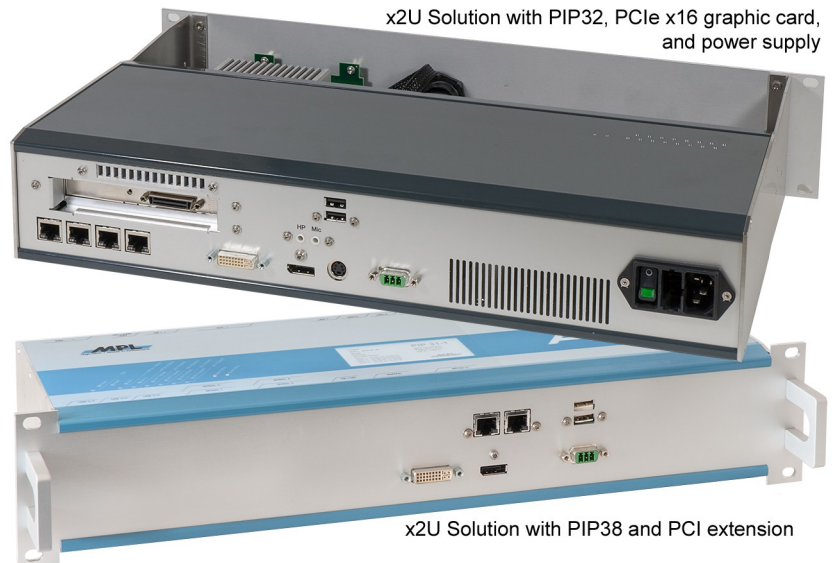


## New Modular, Long-term available 19" Rack Embedded Solution Concept

MPL introduces a very modular alternative concept to the known 19" xU slot solutions. The new concept is based on the MPL designed fanless rugged embedded computers with Intel CPUs.

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Currently 7 different CPU solution are available from Intel's E3800 up to the i7 Quad Core. The boards come with ECC DDR3 RAM up to 16GB, some boards even with soldered RAM depending on the CPU modules. The processors are soldered onboard to withstand the most severe environments like shock, vibration as well as extreme heat. The boards are designed to make conductive cooling without heat pipe or fan possible.



The base board has 4 LAN ports integrated and also includes interfaces like; up to 7x USB ports (3.0 and 2.0), up to 4 Serial lines (RS232/485), PS/2, external SATA port, two display ports (DVDI or DP), and as specialty an external PCIe port. Internally available are 2x SATA 3.0 and 2x SATA 2.0 as well as a LVDS graphic port.

The standard input power range is 9-36 VDC, the power supply is an integrated part of the board. Other voltages (DC or AC) or redundant input can be integrated as well. The 19" rack solution is available fanless for an environmental temperature of -20°C to 60°C and optionally -40°C to 75/85°C.

The beauty of this unique solution is the modularity and expansion capability with the add-ons MPL offers, like;

- Hot swappable RAID
  - Integrated UPS for standard or extended temperature (-40°C to 75°C)
  - Redundant power input
  - Power over Ethernet (PoE+)
  - Managed Switch solution
  - Sound module
- ... more options can be seen on MPL's website

The system can also be expanded with third party cards. Supported interfaces and expansion options are;

- Up to 6 mPCIe slots
- Up to 4 PCIe x1, x4, x8, x16 slots
- Up to 6 PMC or XMC slots
- PCIe-104 and PCI-104

Long-term availability is key for all MPL designs. The products are designed to meet your needs today and tomorrow, and will be available at least for the next 10 years. As MPL buys and stocks all components needed for the manufacturing, they are also able to offer repair capability for 20+ years. The products have been designed and tested for most severe standards like IEC60945, MIL-810F, EN50155, etc..

### *About the Company*

MPL AG was founded in 1985 by Rudolf Hug and is located in Switzerland. Since 1985, MPL has been developing and manufacturing embedded computers and systems for tough environments and for applications with highest reliability requirements. The success of the company is based on unique solutions: ruggedness, long-term availability, low power consumption, extended temperature range, and passive cooling concepts (fanless).

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