Swiss Made Rugged Embedded Computer with integrated PoE

MPL AG, one of the key manufacturer of Rugged Embedded Computers and Industrial Ethernet Solutions has created a combination of the two products, a new Vision Server that can be used in harsh environments. This Vision Solution comes with up to eight individual GigE ports on RJ45 or M12, and four of the GigE ports are available with PoE+, ideal to add cameras.

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In the solution, Intel mobile CPUs and Intel LAN chips out of the embedded roadmap are being used. This will ensure longtime availability (10 years and more), but also the longtime repair-ability(typically 20 years and more after introduction). CPU as well as the ECC DDR3 memory chips are soldered on-board, allowing to mount them direct to the housing for the best cooling and to avoid heat pipes. MPL has been providing this unique cooling concept for more then 16 years. The new PIP30 Family is designed such, that the Fit & Form still remains the same as when the first PIP was introduced in 1996.

The PIP30 Family that is being used for the Vision Server has specifically been designed to withstand extreme environments. What does this mean? check www.mpl.ch/pip30 (PIP30 design rules) for details!

The input of the solution is reverse polarity and load dump protected, even a redundant input can be provided. Input power range is from 9 - 36VDC, optionally any other voltage. If galvanic separation is required due to standards like for Railways, Marine, or vehicle applications, then this can be added internally as well. The solution is designed such that an internal UPS system with battery can be added. For archiving, up to 4 mass storage devices can be integrated that also can be configured as RAID solution. WLAN or GPS can also be integrated.

The BIOS of the PIP30 Family is based on SecureCore Tiano by Phoenix Technologies. MPL has access to the source code of the BIOS, allowing customization according to special customer requirements, independent if this is a custom splash screen, password protection, or special project or application requirements.

In addition to the eight LAN ports of which four of them can be PoE (Power over Ethernet) or fiber, the Vision Server also comes with a large set of interfaces, leaving hardly any wishes open. Up to seven USB (3.0 and 2.0), up to four serial lines (RS232/485), PS/2, external SATA port, and as specialty an external PCI-E or eSATA port. Internally available are two SATA interfaces. The unit can easily be expanded over various expansion ports like; up to 6 miniPCIe, PCI-104, PCI/104-Express, or PCI-Express x 16.

This rugged Solution will meet your needs for today and tomorrow. The PIP30 is offered in the standard PIP housing as well as in a MIL housing or as Open-Frame version. The PIP30 solution is designed to meet standards like EN50155, IEC-60945, or MIL-STD-810G just to name a few. The PIP30 Family is already EN50155 certified and has been delivered for several railway applications

The PIP30 units are developed in Switzerland based on more then 30 years company tradition with a huge know how in lowest power consumption and extended temperature operation. According to the company slogan "MPL High-Tech • Made in Switzerland", all products are 100% designed & produced in Switzerland by MPL AG.

For further information, please visit - http://www.mpl.ch

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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