

Rugged Conductive Cooled Xeon Server Solution with up to 128GB ECC DDR4

If you are looking for a Xeon Server that is "Rugged by Design", fanless, and meets the various standards needed for applications in Transportation, Railway, Maritime, or Defense, then the MXCS from MPL is the solution you need to take a closer look.

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The market is full with Xeon 19" Rack Servers, even Industrial or MIL spec server are presented on the web. If one goes to the inside information of the various offers, then the limitations are quickly visible. Hardly any of those tough Xeon servers come without fan or can be operated at an extended temperature. Or they are limited in the numbers of CPU cores or amount of RAM. The MXCS from MPL offers real server processing power, maximum memory capacity, and ultimate flexibility (M-COTS).



The MXCS (**MPL Xeon Class Server**) has been designed from scratch based on MPL's design experience since 1985, with the aim to create a rugged fanless multi core server to be used in tough and unfriendly environments.

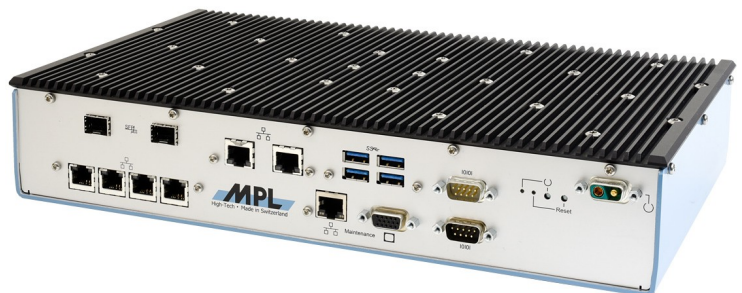
The MXCS

- Is fanless by design
- Uses components for extended temperature
- Uses components out of embedded programs with long-term availability
- Is designed to meet most rugged requirements in transport, defense as well as any other tough environment or application. With the MXCS design you do not need to workout compromises, it simply fulfills all your needs.

The MXCS Xeon server solution is passively conductive cooled and designed for an environment of -20°C to +60°C. The conductive cooling concept can be adapted to its installation place or add-ons. On request it can even be equipped with a failure protected ventilation array, without blowing air and dust over the electronics. The rugged Xeon server is available in a compact enclosure for wall or desktop mounting, as a 2U 19" rack solution, or a sealed IP67 MIL housing with MIL-38999 connectors.

The MXCS concept is SWaP-C (Size, Weight, Power, and Cooling) optimized and requires less than 60W in full operation with 16 cores. It can be adjusted to basically any application and needs due to its various buses and interfaces. **The MXCS has features like:**

- 4 x mSATA or M.2 for mass storage
- 4 x mPCIe slots with retention capabilities
- 4 x PCIe x1, or 1 x PCIe x8 and 1 x PCIe x1
- Expansion capabilities for GPGPU on MXM, PCIe (eg. RAID, high end graphics or XMC)
- Up to 128GB registered ECC DDR4 memory
- BMC for remote management (IPMI)
- Redundant Boot Flash
- Optional TPM module, with Intel chip or FPGA.
- 2 x 10Gbit LAN fiber ports



The MXCS is the perfect solution for an unlimited range of applications like data centers, C4ISR, EW, imaging processing, surveillance, virtual machines, or any application that requires most processing power in a small space without the need of a fan and highest reliability.

The MXCS is 100% designed and produced by MPL AG in Switzerland. The MXCS is designed to meet standards like CE, UL, MIL-STD-810G, MIL-STD-461F, MIL-STD-704F, MIL-STD-1275D, CE, EN50155 or IEC 60945. For more specific information, please contact MPL AG.

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.

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