MPL AG Newsletter June 2017

Rugged Xeon-D fanless Server Solution with up to 16 Cores

Valued reader,

The new fanless Xeon server from MPL (MXCS - MPL Xeon Class Server) enables to use a powerful server in rugged applications regardless if this is in Communication, Transportation, Maritime, Mining or Defense. The solution is available with a fanless enclosure or as open frame. The MXCS solution offers substantially more processing power, more memory capacity, more flexibility (M-COTS), than any fanless solutions in the past. The MXCS has been designed with the same design philosophy as in the past 32 years of designing rugged fanless MPL products. The concept "Rugged by Design" has been applied, and results in a Server solution with highlights like:
- Fanless design
- Use of components in extended temperature
- Use of components out of embedded program with long-term availability
- Designed to meet most rugged requirements
Just to mention a few.

The MXCS can be used in any application that require CE, UL, MIL-STD-810G, MIL-STD-461F, MIL-STD-704F, MIL-STD-1275D, CE, EN50155 and IEC 60945. The design of the solution is such that the system can be passive conductive cooled. Enables to operate the system even in the extended temperature range. The conductive cooling concept can be adjusted to the actual application and installation place. Therefore it is universal, on request it can be even equipped with a failure protected ventilation array.
The embedded rugged XEON solution is modular and therefore extremely flexible. It can be used with an enclosure as shown for wall or desktop mounting, 19" rack with 1.5 HE or 2 HE (depending on the internal expansions and selected cooling mechanism), or in a IP67 MIL enclosure.

The MXCS is, as all MPL products, according to SWaP-C (Size, Weight, Power and Cooling) oriented and requires less than 60W in full operation. The units comes with several internal buses for expansions to easy meet your needs (M-COTS)
- 4 x mSATA or M.2 for multi Terabytes of mass storage
- 4 x mPCIe slots with retention capabilities
- 4 x PCIe x1 or 1 x PCIe x8 plus PCIe x1
- Expansion capabilities with GPGPU on MXM, PCIe, or XMC
- Up to 128GB registered ECC DDR4 memory
- BMC for remote management (IPMI)
- Redundant Boot Flash
- Optional TPM module, with standard chip
  or FPGA for customer programming
Just to name a few features of the MXCS

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

The MXCS is 100% designed and produced by MPL AG in Switzerland as all other MPL products.

For further information, do not hesitate to contact us.

Kind regards,
Your MPL team