Press Release

MPL's Innovative Design for Rugged Embedded Computer wins Gold again

MPL was honored 3rd. time in a row for the Military&Aerospace Electronics Innovator Award
The MILCOTS-24-C1 solution out of the CEC20 Family was recognized among the best by the 2022 Military & Aerospace Electronics Innovators Awards. An esteemed and experienced panel of judges from the aerospace and defense community recognized MPL as Gold honoree.

Dättwil Switzerland, October 2022 - The MILCOTS-2x SwaP Mission Computer was developed with the target to meet the MIL-STD-810 as well as parts of the DO-160 specifications. The solution is installed in a compact IP67 housing with a total of four MIL connectors and TNC connectors. Needless to say that the solution runs conduction cooled from -40°C to +85°C.

The MILCOTS-24-C1 is a low power, highly integrated, flexible and rugged computer. The solution can be used for any computer application where a most reliable solution is needed. The solution is available in various versions in a rugged IP67 MIL case with D38999 connectors. Needless to mention the solution is available as 19" rack solution, or as open frame with a cooling plate. For quick prototyping the solution can be delivered in a rugged industrial packaging. The solution integrates fully the same electronics as a final MIL version. The Swiss designed solution comes with standard MIL connectors or connectors of choice.

MILCOTS-2x Highlights

The MILCOTS-24-C1 comes with onboard NVMe mass storage and supports various other types of mass storage. The onboard m.2 Key-B slot can be used for multiple expansion options (ARINC429, 1553, WiFi…)
The board is equipped with a high density expansion connector with PCIe, USB, I2C, ... interfaces. This allows to expand the CEC2x Family with our standard I/O board or semi-custom designed I/O board, according the customer needs with minimal development effort. This allows for maximum adaptation to any I/O boards and the expansion of the system with additional interfaces. Example: GPIOs, additional serial ports, gigabit fiber, CAN, miniPCIe slots and even PCI/104 express port. To name just a few possibilities. The MILCOTS-24-C1 supports standard SO-DIMM DDR4 and has the possibility to support IBECC (In Band ECC). Particular precautions have been taken that the entire system EMC is within the CE and FCC limits and that standards like EN50155, IEC 60945, or MIL-STD-810 can be met.

Key features are:
- DDR4 RAM up to 32GB (support of IBECC)
- 1 & 2.5 Gbit Ethernet ports
- Fanless operation (-40°C to +85)
- Longterm availability (until 2035 with selected CPUs)
- Expansion port for standard or customized IO board
- Intel Atom Processor x6000 Family
- Low power consumption 4.5 -12W (TPD CPU)
- 128Gb on board NVMe Flash (up to 1TB)
- USB3.1, isolated serial ports…

The MILCOTS-24-C1 and CEC2x is 100% designed and manufactured by MPL AG in Switzerland.

For more specific information, please visit www.mpl.ch/t2065.html or contact MPL AG directly.

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.

Contact Information
Remy Lörtscher
MPL AG, 5405 Dättwil, Switzerland
Phone: +41 56 483 34 34

Hi-res Press Photo: https://www.mpl.ch/info/MILCOTS-24-Rugged-Embedded-Computer.jpg