

## Rugged conductive cooled GPGPU Computer with 768-CUDA Cores

With more than 20 years experience in fanless computers, MPL designed a conductive cooled Quad Core i7 CPU system with an integrated NVIDIA 768-Core GPGPU. The complete solution requires no fan and can be operated in environments of -40°C up to +60°C.

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MPL AG is more or less the inventor of fanless computers. They have been providing fanless conductive cooled solutions for more than 20 years. Over the years, the unique cooling method has been duplicated by many computer manufacturers. However, those solutions are different to the MPL solution. The conductive cooling solutions from MPL are not achieved by using heat pipes or other workarounds. The MPL conductive cooling solution starts with the design of the CPU boards and its peripherals. Only low power consumption parts are being selected. The heat generating parts are being placed without compromises on the back side of the base board, to connect all hot spots directly the case outside. To achieve this specific design, a special agreement (RS NDA) with Intel is required, as only this allows to change the reference design Intel provides. Most of the available products on the market are derived from the reference design of Intel, which are created for the commercial computers.

With this special know-how and over 20 years experience, MPL designed a conductive cooled Quad Core i7 CPU system with an integrated NVIDIA 768-Core GPGPU. The complete solution requires no fan and can be operated in environments of -40°C up to +60°C.

Fully according to the MPL Slogan "Better by Design"

In addition to the NVIDIA GPGPU, this specific system comes with features like:

- ECC RAM
- 4 x GigE ports
- Dual CAN
- 8 x serial ports
- Audio
- 12-32V DC input according MIL-STD-1275D
- SuperCap to support low input voltage during 250msec acc. MIL-STD-1275D
- Secure mounting of 2.5" SSD
- All packaged into a IP67 conductive cooled housing



Any required changes or additional features can most probably be integrated. Let MPL know what your needs are and they can help you finding a solution.

The rugged conductive cooled GPGPU computer is 100% designed and manufactured by MPL AG in Switzerland\*. This guarantees best quality, long-term availability, long-time repair, and gives you security you can trust. (\* the GPGPU card is from a 3rd party supplier and is connected over a MPL designed MXM adapter card)

For more information, please contact MPL directly or visit their website [www.mpl.ch](http://www.mpl.ch)

### *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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