

Swiss engineered and manufactured most Rugged Premium Panel Computer

The latest TRICOR12 Family Premium Panel PC is a Rugged Embedded Computer combined with a 12.1" display. The intelligent embedded computer board comes with Intel Atom or up to 9th Gen i7 or Xeon processors.

Dättwil Switzerland, September 2020

The robust Panel PC is designed for minimum power consumption. The embedded CPU boards with the conductive cooling system do not require any ventilation. MPL engineers are taking special care to select only the best components with the lowest power consumption. The final result is an increased MTBF so that the TRICOR12 can be used for years to come without any problems. The TCO (total cost of ownership) is maximally increased.

The screen has a brightness of up to 1000 cd/m² and excellent optical specifications. In addition, a NV (night vision) function is optionally available. If applications require a touch screen for easy handling or EMI protected displays, it can also be provided.



The system is designed with a military grade, high strength, and light weight housing (SWaP-C). The enclosure meets IP54 all around. Its modular architecture allows the system to be easily configurable with many options (GPS, 1553, WLAN, LTE...). Additional function keys for faster operation of the system can be implemented. An expansion with GPU for compute-intensive applications such as image processing, can easily be integrated.

The interface plugs (e.g. 38999 or M12) can be made available on all sides, depending customer requirements. The device has various mounting options and is suitable for any application requiring a robust and reliable solution. The complete system has an extended temperature range from -20°C up to +70°C.

The TRICOR12 supports multiple OS (Windows 10, Linux and others). The rugged housing underlines the premium standard of the TRICOR Panel Computer Family.

Main features are:

- Wide input voltage range 10-36VDC (e.g. MIL-STD-1275, others on request)
- Spacesaving, integrated All-in-One solution
- Fanless design (noiseless)
- VESA / wall mounting / control cabinet installation
- Wide selection of processors (Intel Atom up to 9th Gen i7 & Xeon)
- Operating temperature range -20°C to +70°C
- Highly configurable and customizable (M-COTS)

All MPL products are designed for long-term availability and the TRICOR12 Family will be available for at least 10 years. MPL's own component stock guarantees repairs.

The TRICOR12 is engineered and manufactured by MPL AG in Switzerland. The system meets or even exceeds typical standards such as MIL-STD-810, MIL-STD-461, MIL-STD-1275.

For more specific information, please visit www.mpl.ch/t2932.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 Täfernstrasse 20
CH-5405 Dättwil, Switzerland
Phone: +41 56 483 34 34
info@mpl.ch - www.mpl.ch

