

Swiss engineered and manufactured Firewall / Router / Access Point for rugged Environments

The new μ GUARD acts as multi purpose Firewall / Router / Access Point and comes with long-term availability. The design is optimized for ultra low power consumption, small size (SwaP-C) and with highest flexibility, plus the capability for operation in extended temperature (-40° up to +85°C).

Dättwil Switzerland, June 2020

The new rugged μ GUARD can be expanded with up to 10 additional manageable LAN ports. The μ GUARD adds a reliable and unique product to MPL's Industrial Network Solutions.

The new μ GUARD comes with features like:

- Wide input voltage range 8–36VDC (others on request)
- 1 Gbit Ethernet ports (10/100/1000 Mbit support)
- 2 x mPCIe slot for (WLAN, GPRS, LTE, mSATA SSD, ...)
- 1 x M.2 slot with dual SIM support for LTE
- Security proven OpenWRT operating system
- Long-term availability

The μ GUARD is available as OpenFrame on a cooling plate to be mounted in existing housings or cabinets, and in a standard industrial housing for wall or DIN-rail mounting. If the application requires fiber, we integrate our well proven TX2FX module. Alternatively, MPL offers a firewall solution with RJ45, M12, or MIL-38999 connectors. The standard operation temperature range is -20°C to +60°C and is optionally available in extended temperature with -40° up to +85°C.



The μ GUARD comes preinstalled with an adapted version of OpenWRT (www.openwrt.org). This Linux based embedded distribution provides all functionality required for operation as IPV4 and/or IPV6 firewall and router. The vast amount of additional packages available in conjunction with MPL support, allows to create your security solution for every routing or firewall project.

Most of the configuration for the firmware installed can be done using a web based interface. For more specialized requirements, a console based configuration utility is available. All configuration is stored on the device in a human friendly text format and can be modified using a text editor, too.

A wide range of functionality can be installed using a package repository that contains more than 2000 pre-compiled applications ready to install. A software development kit (SDK), allowing to implement customer specific applications, is available as well.

The rugged μ GUARD is the ideal and most secure solution for all rugged industrial, public transportation, and defense applications, where quality, reliability, ultra low power consumption, and long-term availability are key.

All MPL products are designed for long-term availability and the μ GUARD will be available for at least 10 years. MPL's own component stock guarantees repairs for up to 20 years. Extended temperature ranges can be fulfilled and are tested in MPL's own climatic chambers according customer's request.

The μ GUARD is 100% engineered & manufactured by MPL AG in Switzerland and meets or exceeds the most common standards. Particular references are: EN 55022, EN 55024, EN 61000, MIL-STD-461E, EN 60068, EN 50155, MIL-STD-810G, EN 60601, EN 60950, CE, IEC 60945, IACS and E10.

For more specific information, please visit www.mpl.ch/t2874.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.

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