



APPLICATIONS

The modular EM Tough Box is the perfect Plug&Play system solution, especially designed for low-power and - noiseless - applications since no fans or other rotating devices are used. It is a well-engineered and high quality industrial computer system offering the highest performance in tough environments.

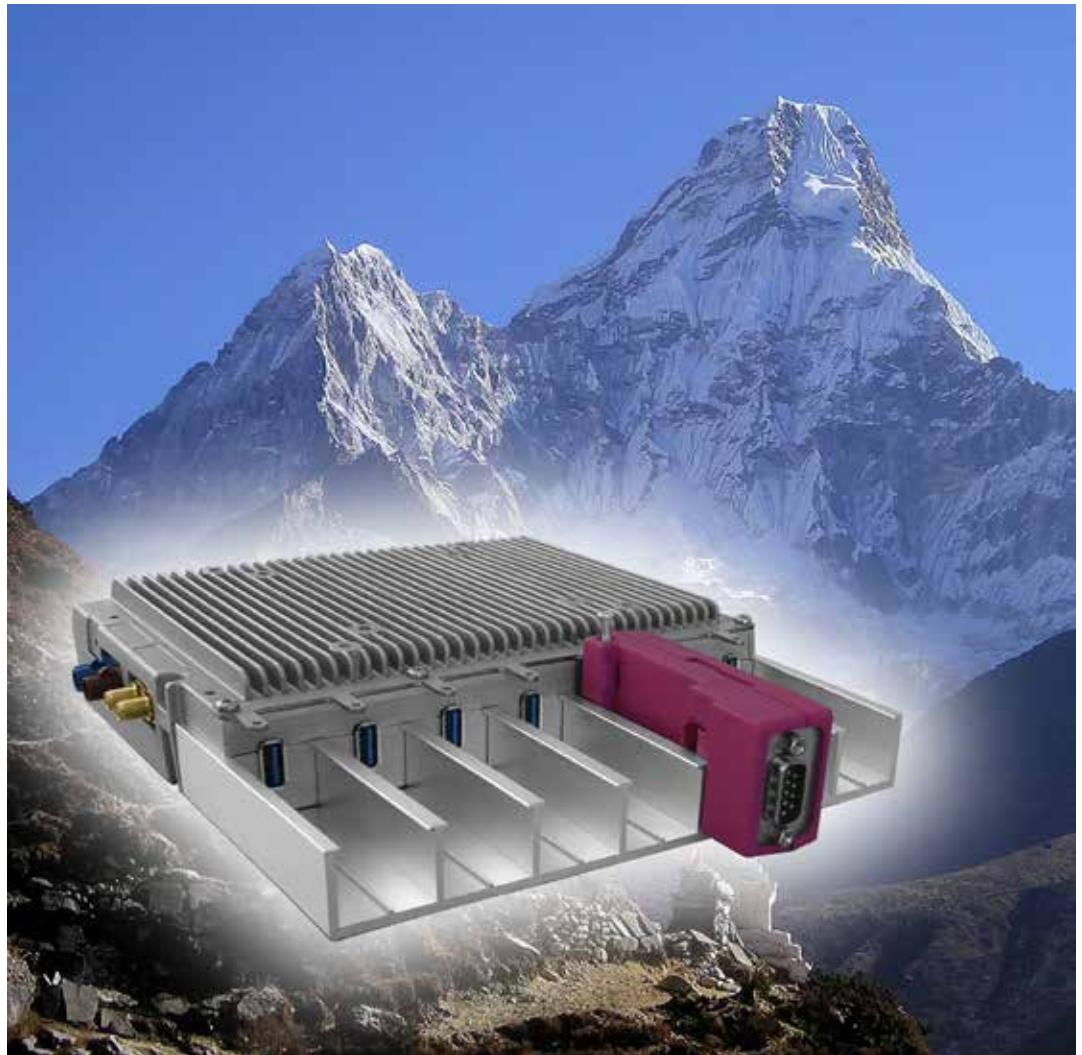
- ▶ Rugged Industrial Systems
- ▶ Medical Solutions
- ▶ Automatic Control Panels
- ▶ Information Systems
- ▶ Measurement & Quality Control
- ▶ Public Terminal

BENEFITS

- ▶ Long term availability
- ▶ Free of rotating parts
- ▶ Rugged & reliable choice for demanding embedded applications
- ▶ Small installation depth

TB-M

Tough-Box-Modular



your start to unlimited opportunities

A "Made in Germany" System



Configure your system for different purposes. It works with a wide range of USB components.



Seven control LEDs allow to display various operating states of the system.



Use the TB-M in harsh and tough environments. An optional extended temperature version is available.



The TB-M system is designed for DIN-Rail mounting and can be expanded with an optional modular USB mounting carrier.



Expand your system through various USB adapter options.



Operate and control your processes.





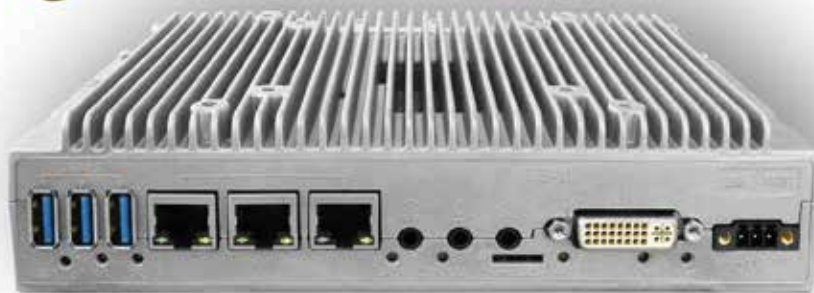
OVERVIEW

The modular EM Tough Box is powered by proven technology, including AMD G-Series processors. The system is ready for multiple USB 3.0 devices.

Our optional modular USB mounting carrier can safely connect up to seven modules with the system.

SUMMARY

- ▶ Fanless operation
- ▶ Three GBit Ethernet ports
- ▶ Ready for multiple USB 3.0 devices
- ▶ Extended temperature option



**ALL YOU WISH TO DO
IN ONE SYSTEM,
THE EASY WAY!**

More Information: sales@emtrust.de

fanless rugged industrial design

UNLIMITED POSSIBILITIES WITH 6 USB 3.0 AND 4 USB 2.0 HOST PORTS

SPECIFICATIONS

CPU com. temp.	Dual Core GE210HICJ23HM Quad Core GE415GIBJ44HM
CPU ind. temp.	Dual Core GE209HISJ23HM
Memory	Up to 8 GB DDR3L
USB Host Port	6x USB 3.0, 4x USB 2.0
Interfaces	3x GBit Ethernet, 7x Control LED, 1x MicroSD-Card socket, Mic., Headphone, DVI-I conn., Ext. Ant.
OS Support	Linux® Ubuntu 16.04 LTS Windows® 7, 8, 10
Power Input	8 V (min) to 32 V (max) DC EMI filtering on board

Dimension /mm	Approximately 194 x 127,3 x 41,7
Weight	Approximately 900 grams + options
Mounting	DIN-Rail mounting, others on request
Conformity	CE, ROHS, REACH
Com. Temp.	Operation: 0 °C to 60 °C ambient Storage: -40 °C to 85 °C ambient
Ind. Temp.	Operation: -40 °C to 85 °C amb. Storage: -40 °C to 85 °C ambient
Humidity	Maximal relative humidity of atmosphere: 95 % at 40 °C, non-condensing



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