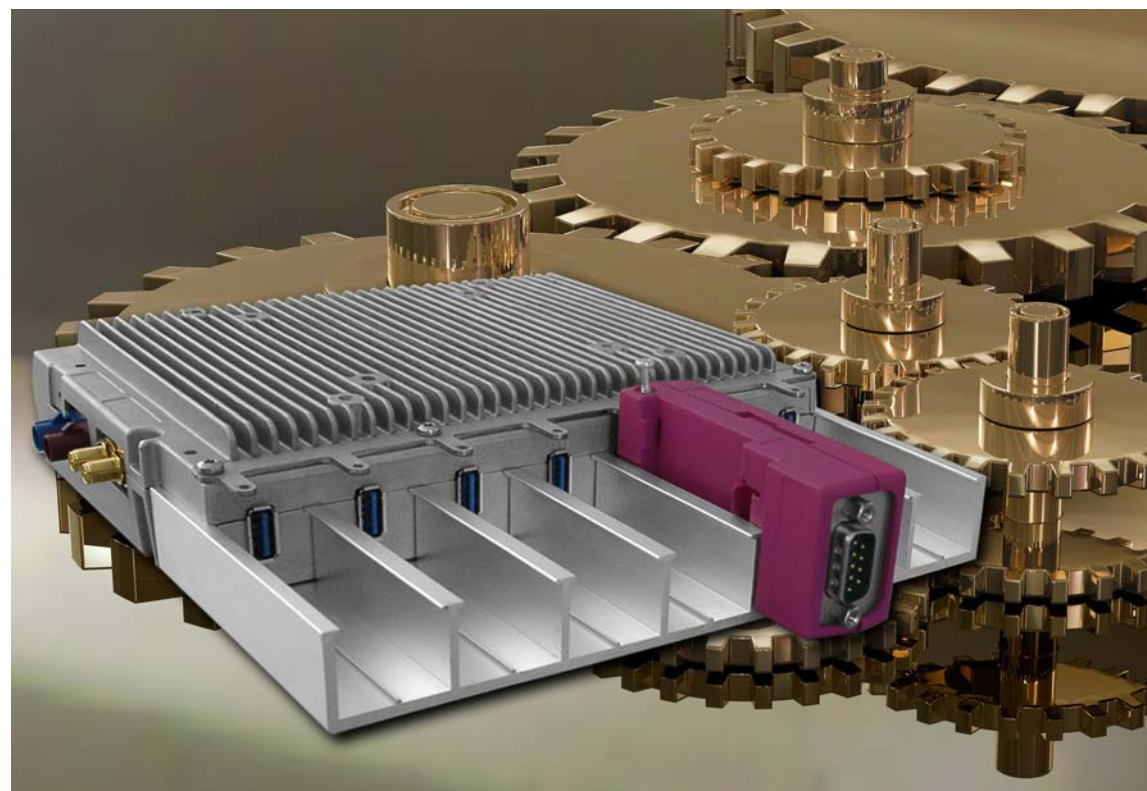


## APPLICATIONS

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 german 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

## TOUGH BOX MODULAR



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



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



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



Expand your system with various USB adapter options.



Seven control LEDs allow to display various operating states.



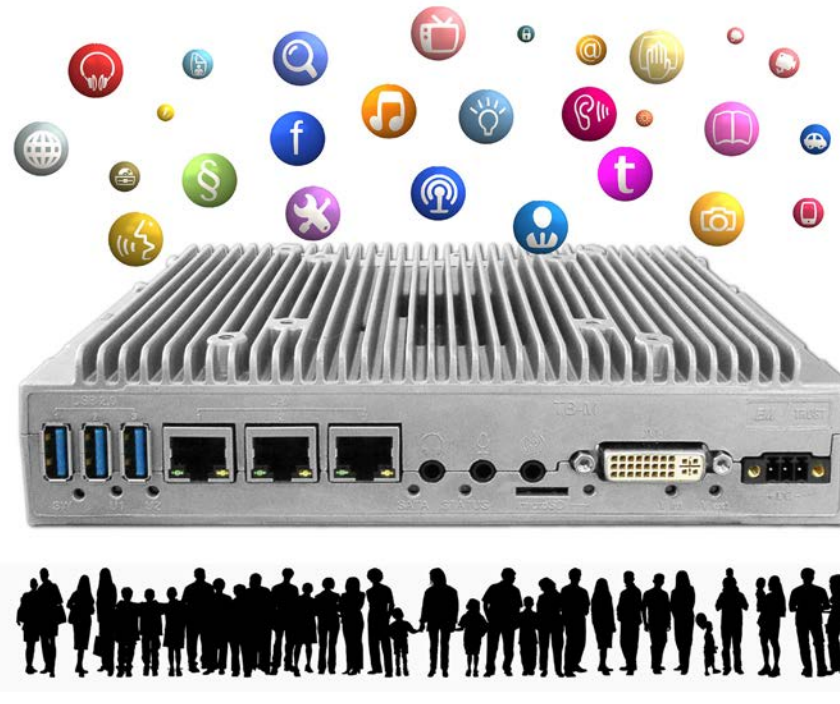
Operate and control your processes.

## SPECIFICATIONS

CPU commercial temp.	Dual Core GE210HICJ23HM Quad Core GE415GIBJ44HM
CPU industrial temp.	Dual Core GE209HISJ23HM
Max. memory	Up to 8 GB DDR3L
Interfaces	3 Gigabit Ethernet 7 Control LEDs 1 MicroSD-Card socket Microphone / headphone DVI-I connector External antenna
USB host port	6 USB 3.0 4 USB 2.0
OS support	Linux Ubuntu 16.04 LTS Microsoft® Windows® 7 Microsoft® Windows® 8 Microsoft® Windows® 10
Power supply	Min. 8 V / Max. 32 V (DC) EMI filtering on board
Dimension	194 mm x 127,3 mm x 41,7 mm
Weight	Approximately 900 grams +opt.
Mounting	Hat rail mounting Other on request
Conformity	CE, ROHS, REACH
Max. operating temp.	0°C to +60°C ambient (comm. temp.) -40°C to +85°C ambient (ind. temp.)
Max. storage temp.	-40°C to +85°C ambient
Max. rel. humidity	95 % @ 40°C, non-condensing

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

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



fanless rugged industrial design



## 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