

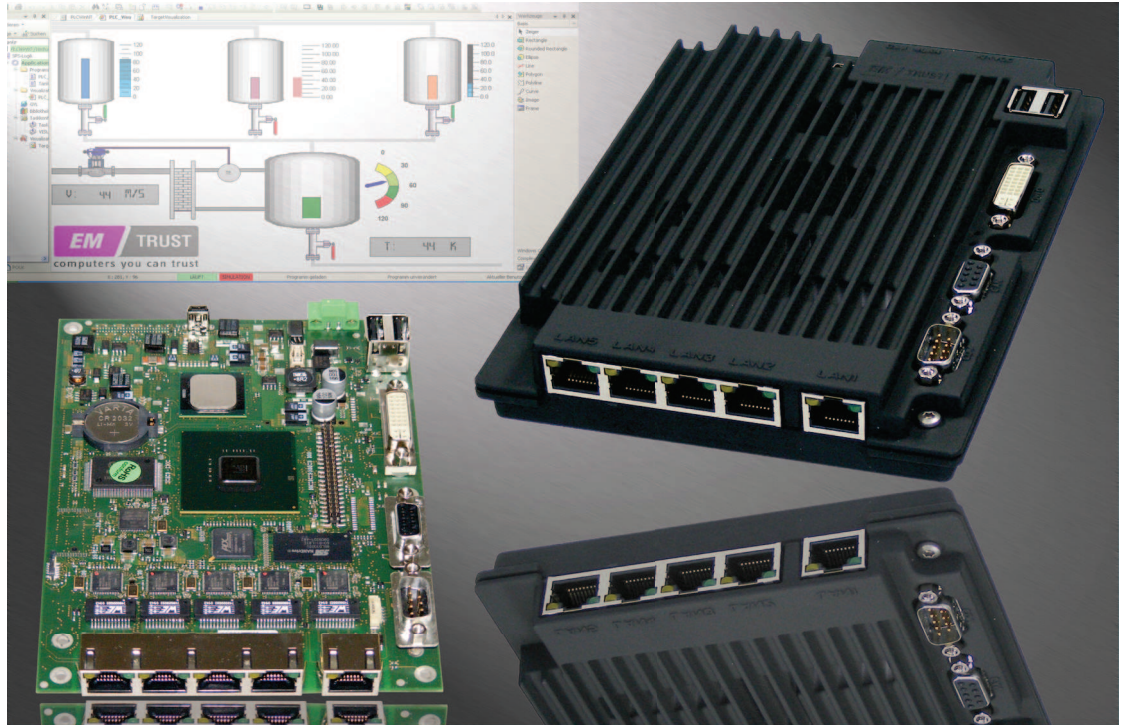


TB-14

APPLICATIONS

The **EMToughBox** is the perfect Plug&Play system solution, specially designed for **FANLESS** applications.

- ▶ Industrial Control and Automation
- ▶ Measurement and Control
- ▶ Medical
- ▶ Infotainment
- ▶ Mobile Applications



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FEATURES

- ▶ Powered by proven Intel® technology
- ▶ Supporting Intel® Atom™ processors and chipsets for commercial or industrial temperature grade
- ▶ Allows simultaneous use of UMTS and WLAN for extended router applications
- ▶ Supports up to 2GB DDR2 Memory
- ▶ Design, Production and Support “Made in Germany”

BENEFITS

- ▶ Low emission, high immunity
- ▶ Long term availability
- ▶ Free of rotating parts
- ▶ Full software compatibility
- ▶ Rugged & reliable choice for demanding embedded applications
- ▶ Small installation depth
- ▶ Integration- and application-services, trainings





TB-14

EM Tough

OVERVIEW

The **EMToughBox** is powered by proven technology, including Intel® Atom™ Processors up to 1,6 GHz. An optional wireless module supporting GPRS, EDGE, UMTS and HSDPA is available and at the same time a optional Wireless LAN module can be used.

SPECIFICATION SUMMARY

- ▶ Fanless operation
- ▶ Five Gigabit Ethernet Port
- ▶ WLAN Option
- ▶ UMTS Modem Option with SIM card reader
- ▶ Extended Temperature Option

SPECIFICATIONS

CPU Commercial temperature version: Intel® Atom™ processor Z510P 1.1 GHz - 512 KB cache Intel® Atom™ processor Z530P 1.6 GHz - 512 KB cache Industrial temperature version: Intel® Atom™ processor Z510PT 1.1 GHz - 512 KB cache	WIRELESS Yes, GPRS/EDGE/UMTS/HSD-PA module (Option)	POWER INPUT 8V-32V DC
CHIPSET Commercial temperature version: Intel® System Controller Hub US15WP Industrial temperature version: Intel® System Controller Hub US15WPT	USB CLIENT PORT Yes, miniUSB Type B (5-pin) Connector	EMI SHIELDING Yes CE, other upon request
MAX. MEMORY 1GB DDR2 RAM (Default) 2GB DDR2 RAM (Option)	USB HOST PORTS 2x USB 2.0 Host Ports Type A	SIZE 185 mm x 135 mm x 30 mm (L x W x H)
BIOS UEFI-BIOS	CAN BUS Yes, 9-pin female D-SUB Connector	WEIGHT Approx 500 grams
1 GBIT ETHERNET Five Gigabit Ethernet ports	SERIAL PORT Yes, 9-pin male D-SUB Connector	CASE Aluminium diecast
WLAN Yes, 802.11 b/g (Option)	DVI-D PORT Yes	MOUNTING DIN Rail Mounting, others on request
	INDUSTRIAL FLASH DISK 2GB industrial flash disk (Option) 4GB industrial flash disk (Default)	TEMPERATURE RANGE Commercial temperature version: FANLESS Operation: 0°C to +60°C ambient Storage: -40°C to +85°C ambient Industrial temperature version: FANLESS Operation: -40°C to +85°C ambient Storage: -40°C to +100°C ambient
	FANLESS Designed for fanless operation	HUMIDITY Max. rel. humidity of atmosphere non condensing Working up to 75% Storage up to 95%
	OS SUPPORT Linux Microsoft Windows® XP Microsoft Windows® XP Embedded	
	MONITORING AND MANAGEMENT Hardware Monitoring and Watchdog	