

EM TRUST

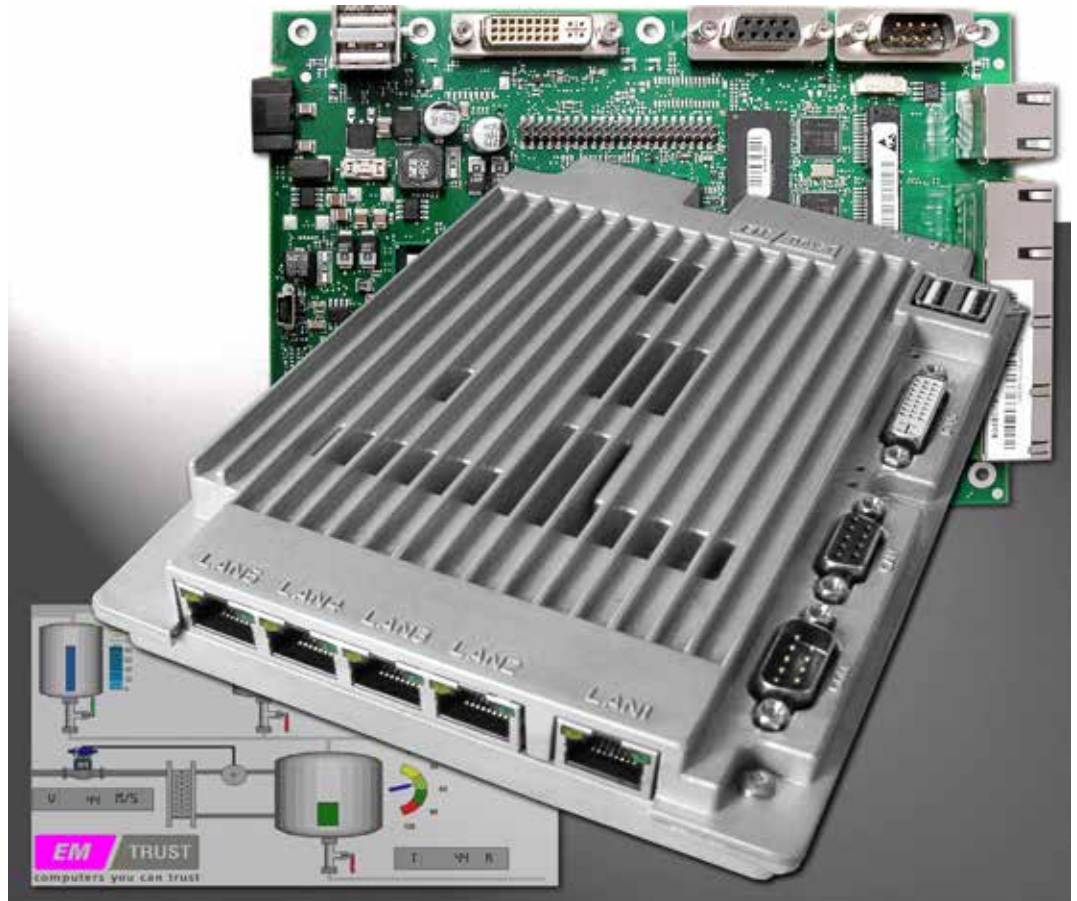
computers you can trust

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

TB-14



TB-14

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
- ▶ 5 independently operating GBit- Ethernet- Ports
- ▶ Wide range DC power input
- ▶ Design, Production and Support "Made in Germany"

BENEFITS

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





TB-14

EM Tough

OVERVIEW

The EM ToughBox 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 - 2,2W TDPmax
512 KB cache

Intel® Atom™ processor Z530P
1.6 GHz - 2,2W TDPmax
512 KB cache

Industrial temperature version

Intel® Atom™ processor Z510PT
1.1 GHz - 2,2W TDPmax
512 KB cache

Intel® Atom™ processor Z520PT
1.33 GHz - 2,2W TDPmax
512 KB cache

CHIPSET

Commercial temperature version

Intel® System Controller Hub US15WP

Industrial temperature version

Intel® System Controller Hub US15WPT

MAX. MEMORY

Up to 2 GB DDR2 RAM with 400/533 MHz
Default: 1GB

BIOS

UEFI-BIOS

1 GBIT ETHERNET

5x GBit Ethernet
Intel®82574IT GBit Eth. Contr.

WLAN

802.11 b/g (option)

WIRELESS

GPRS/EDGE/UMTS/HSDPA module (option)

USB HOST PORTS

2x USB 2.0 Host Ports Type A

USB CLIENT PORT

MiniUSB Type B (5-pin) connector

CAN BUS

9-pin female D-SUB connector for CAN

SERIAL PORT

9-pin male D-SUB connector for RS232

GRAPHIC PORT

DVI-D on DVI connector

FLASH DISK

2GB industrial flash SSD (option)

4GB industrial flash SSD (default)

FANLESS

Designed for fanless operation

OS SUPPORT

Linux
Microsoft Windows® XP
Microsoft Windows® XP Embedded

MANAGEMENT

Hardware Monitoring and Watchdog

POWER INPUT

DC: 8V (min) to 32V (max)

EMI SHIELDING

CE, other upon request

DIMENSION

Approximately (L x W x H)
181,5 x 131 x 30 (mm)

WEIGHT

Approximately 700 grams
(More with options)

CASE

Aluminium diecast

MOUNTING

DIN Rail Mounting, others on request

TEMPERATURE RANGE

Commercial temperature version

Operation:
0°C to +60°C ambient

Storage:
-20°C to +85°C ambient

Industrial temperature version

Operation:
-40°C to +85°C ambient

Storage:
-40°C to +100°C ambient

HUMIDITY

Max. rel. humidity of atmosphere non condensing

Working up to 95%

Storage up to 95%