



APPLICATIONS

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

Typical application areas include:

- ▶ Industrial Control and Automation
- ▶ Measurement and Control
- ▶ Medical
- ▶ Infotainment
- ▶ Remote Management
- ▶ Extended Industrial Router

BoxPC-38



BoxPC-38

FEATURES

- ▶ Powered by the newest Intel® Atom™ processor E38xx Series (single, dual or quad core) up to 1.91 GHz
- ▶ Allows simultaneous use of UMTS and WLAN for extended router applications
- ▶ Wide range DC power input
- ▶ Supports up to 8 GB DDR3L 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-, application- and training-services available





BoxPC-38

EM BoxPC

OVERVIEW

The EM BoxPC is powered by latest technology including Intel® Atom™ Processors E38xx Series. An optional wireless module supporting GPRS, EDGE, UMTS and HSPA is available and at the same time a optional WiFi module can be used.

SPECIFICATION SUMMARY

- ▶ Fanless operation
- ▶ Gigabit Ethernet Port
- ▶ SATA Interfacing
- ▶ Modem solution with SIM card reader

SPECIFICATIONS

CPU

Single Core Intel® Atom™ processor
E3815/ 1.46 GHz/ 512 KB cache/ TDP 5 W
Quad Cores Intel® Atom™ processor
E3845/ 1.91 GHz/ 2 MB cache/ TDP 10 W
Dual Cores version on request

MAX. MEMORY

Up to 8 GB DDR3L memory (Single Core Intel® Atom™ processor up to 4 GB)

BIOS

UEFI-BIOS

GBIT ETHERNET

Intel® WGI210IT Gigabit Ethernet controller
2x RJ-45 on front side

MASS STORAGE SUPPORT

1x MSATA
1x On-board SATA connector

USB HOST PORTS

1x USB 3.0 Host Port Type A
4x USB 2.0 Host Ports Type A

SERIAL PORT

1x 9-pin male D-Sub connector for RS-232

VIDEO INTERFACES

1x DVI-I connector (DVI and VGA)

MINI PCI EXPRESS SOCKET

1x PCIe with SIM card socket for wireless modem funktion
1x Autodetect PCIe or mSATA

ADDITIONAL OPTIONS

1x High Definition Audio connector
1x Headphone connector
Additional right side connectors:
1x RJ-45, 1x CAN and 1x 9-pin male D-Sub for RS-485 | Standard in Quad Core version
Additional 9-pin D-Sub connectors:
2x frontside, 1x rearside
Possible options: 1x CAN and 1x RS-485 and 1x RS-232

FANLESS

Designed for fanless operation

OS SUPPORT

Microsoft Windows® 7, 10
Microsoft Windows® 8, 8.1 on request
Linux on request

MANAGEMENT

Hardware monitoring

POWER INPUT

DC: 8 V (min) to 32 V (max) | with screw mounted 3-pin base strip plug (Phoenix Contact)
AC: Wide range option on request
100 V to 240 V | 50/60 Hz

EMI SHIELDING

CE
Other upon request

SIZE

DC variant: Approximately (L x W x H)
235 mm x 150 mm x 44 mm
1 U Rackmount Height
AC variant: Approximately (L x W x H)
235 mm x 230 mm x 44 mm
1 U Rackmount Height

MOUNTING

Stand alone
Optional: DIN Rail mounting, 19" 1 U rackmount kit
Other upon request

TEMPERATURE RANGE

Commercial temperature version
Operation: 0 °C to +60 °C ambient
Storage: -20 °C to +85 °C ambient
Industrial temperature version (option)
Operation: -40 °C to +85 °C ambient
Storage: -40 °C to +85 °C ambient

HUMIDITY

Maximum relative humidity of atmosphere
95 % @ 40 °C, non-condensing



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