



## 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

# BoxPC-85



## BOXPC-85

### FEATURES

- ▶ Powered by latest technology with support for Intel® Core™ i7 Processor up to 1.33 GHz
- ▶ Mobile Intel® QM57 Express Chipset
- ▶ Three Gigabit Ethernet Ports
- ▶ 2x USB 3.0 Ports, 3x USB 2.0 Ports, 1x RS232, 1x RS422/485, 1x CAN Bus Port
- ▶ PCI Express® and PCI™ compatible
- ▶ DVI-I / max. Resolution:  
VGA 2048x1536px @ 75Hz  
DVI 1920x1200px @ 60Hz
- ▶ Optional UMTS with SIM-Card and W-Lan
- ▶ Wide rang DC power input
- ▶ Supports up to 8GB DDR3 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





# BoxPC-85

EM BoxPC

## OVERVIEW

The EM BoxPC is powered by latest technology, including Intel® Core™ i7 Processor up to 1,33 GHz and the Mobile Intel® QM57 Express Chipset. The perfect Plug&Play system solution optional automotive or standard grade harddisks, wireless module supporting GPRS, EDGE, UMTS and HD-SPA is also available.

## SPECIFICATION SUMMARY

- ▶ PC functionality
- ▶ Gigabit Ethernet Port
- ▶ SATA Interfacing
- ▶ Two PCI-Express Mini-Card Connectors
- ▶ Modem solution with SIM card socket

## SPECIFICATIONS

### CPU

Intel® Celeron™ ULV – U3405  
 1.06 GHz - 18W TDPmax - 2 MB L3 Cache  
 Intel® Core™ i7 ULV – i7-620UE  
 1.06 GHz - 18W TDPmax - 4 MB LLC Cache  
 Intel® Core™ i7 ULV – i7-660UE  
 1.33 GHz - 18W TDPmax - 4 MB LLC Cache

### CHIPSET

Mobile Intel® QM57 Express Chipset

### SYSTEM MEMORY

Up to 8 GB DDR3 memory supports 800 MHz

### SERIAL ATA INTERFACE

2x internal header, 2x BoardToBoard (option)

### GIGABIT ETHERNET

3x GBit Ethernet  
 1x Intel® 82577 GBit Ethernet Controller  
 2x Intel® 82574 GBit Ethernet Controller

### WLAN

IEEE 802.11b/g (option)

### WIRELESS

GPRS/EDGE/UMTS/HSDPA module (option)

### USB HOST PORTS

3x USB 2.0 Host Ports Type A, 4x internal header,  
 4x BoardToBoard (option), 2x MiniCard (option)  
 2x SuperSpeed USB 3.0 up to 5 Gbit/s

### SERIAL PORTS

1x RS232 male D-SUB9 connector or internal header and 3x RS232 internal header  
 1x RS422/485 male D-SUB9 connector or internal header,  
 1x CAN female D-SUB9 connector

### GRAPHIC INTERFACE

DVI-I Connector: Analog VGA and Digital Video  
 Internal 24-bit dual channel LVDS

### SOUND

4-channel High Definition Audio interface with Analog Audio and S/PDIFr

### MANAGEMENT

Hardware Monitoring and Watchdog (option)

### HARDDISK

Automotive or standard grade harddisks (opt.) or industrial flash disks (option)

### POWER INPUT

DC: 8V (min) - 32V (max)  
 AC: 230V (option)  
 Others on request

### FANLESS

Designed for fanless operation

### OPERATING SYSTEMS

Windows® XP Embedded  
 Windows® XP Professional  
 Windows® 7 Embedded  
 Windows® .7 Professional  
 Linux on request

### SIZE (PENDING ON VARIANT)

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

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

### MOUNTING

Stand alone, Top Hat Rail Mounting, 19" Rackmount Kit, others on request

### TEMPERATURE RANGE

FANLESS Operation:  
 0°C to +50°C ambient  
 extended temperature ranges upon request

Storage:  
 -40°C to +85°C ambient

### HUMIDITY

Maximum relative humidity of atmosphere  
 non-condensing  
 Working up to 75%  
 Storage up to 95%



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