



## APPLICATIONS

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

- ▶ Control and Automation  
Scaleable, long term availability, flexible expansion
- ▶ Rugged Industrial  
No rotating parts, low power
- ▶ Medical  
Intel® Core™ performance, high-resolution graphics
- ▶ Public Terminal  
Digital signage, multiple display support, WiFi hotspot, vending machines
- ▶ Mobile Solutions  
Construction machines, forklifts, cranes, agriculture machines and equipment
- ▶ Communication  
Mobile edge router, advanced firewall, VPN appliances

# BoxPC-97



high performance Intel® Core™ processors



[www.emtrust.de](http://www.emtrust.de)

## BoxPC-97

### FEATURES

- ▶ Intel® Core™ i7 processor support
- ▶ Up to 16 GB DDR3L 1600 MHz memory
- ▶ Allows simultaneous use of UMTS and WLAN for extended router applications
- ▶ Frontpanel HDMI and Display Port interfaces
- ▶ Wide range DC power input
- ▶ Three independent Gigabit Ethernet controller
- ▶ Design, production and support  
“Made in Germany”

### BENEFITS

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



# BoxPC-97

EM BoxPC

## OVERVIEW

The EM BoxPC is powered by Intel® Core™ processor technology.

An optional wireless module supporting GPRS, EDGE, UMTS HSDPA and LTE is available.

At the same time an optional Wireless LAN module can be used.

## SPECIFICATION SUMMARY

- ▶ Fanless operation
- ▶ 3 Gigabit Ethernet ports
- ▶ SATA interfacing
- ▶ M.2 SSD support
- ▶ Modem solution with SIM card reader

## SPECIFICATIONS

### CPU SOC

Intel® Core™ i7-5650U - 2,2 GHz | 15 W TDPmax | 4 MB L3 Cache | Intel® HD Graphics 6000  
 Intel® Core™ i5-5350U - 1,8 GHz | 15 W TDPmax | 3 MB L3 Cache | Intel® HD Graphics 6000  
 Intel® Core™ i3-5010U - 2,1 GHz | 15 W TDPmax | 3 MB L3 Cache Intel® HD Graphics 5500  
 Intel® Celeron™ 3765U - 1,9 GHz | 15 W TDPmax | 2 MB L3 Cache Intel® HD Graphics

### BIOS

UEFI BIOS

### SYSTEM MEMORY

Up to 16 GB DDR3L SDRAM dual channel with 1333 or 1600 MHz (two SO-DIMM DDR3 sockets)

### MASS STORAGE SUPPORT

1x internal M.2 SSD-Drive (42 or 60 mm) support  
1x 2,5" SSD-Drive with optional HDD carrier

### GBIT ETHERNET

Three independent 10/100/1000 MBit Ethernet controller (Intel® I210) routed at front side LAN RJ-45 connectors

### USB HOST PORTS

2x USB 2.0 / 1.1 at Dual-USB-A front side connector  
2x USB 3.0 at Dual-USB3.0-A front side connector

### GRAPHIC INTERFACE

Display Port connector at front side  
- Resolution up to 3200x2000 @60Hz  
HDMI connector at front side  
- Resolution up to 4096 x 2304 @ 24 Hz

### AUDIO

Intel® High Definition Audio with Stereo-Line-In and Stereo-Line-Out at two front side 3,5mm audio jack connectors

### WIRELESS (OPTIONAL)

WLAN / Bluetooth  
2x RP-SMA-B connector for WLAN at front side

LTE\_UMTS/GPS

2x RP-SMA-B connector for LTE\_UMTS/GPS at front side

### SERIAL PORT (OPTIONAL)

Additional 9-pin D-Sub connectors: 1x front side and 1x rear side

Possible options: 1x CAN and 1x RS-232  
or 1x CAN and 1x RS-485  
or 1x RS-232 and 1x RS-485

### FANLESS

Designed for fanless operation

### OS SUPPORT

Microsoft® Windows® 7, 10, 10 IoT Core  
Linux® Ubuntu 16.04.1 LTS  
Others on request

### MANAGEMENT

Hardware Monitoring and Watchdog

### POWER INPUT

DC: 8 V (min) to 32 V (max)  
AC: Wide range option on request  
100 V to 240 V | 50/60 Hz

### APPROVALS

CE, ROHS, REACH, RED with optional wireless module only

### SIZE

1U rackmount height | Approximately (L x W x H)  
DC variant: 235 mm x 150 mm x 44 mm  
AC variant: 235 mm x 230 mm x 44 mm

### MOUNTING

Stand alone  
Optional: DIN rail mounting, 19-inch 1U rack-mount, others on request

### TEMPERATURE RANGE

Commercial temperature version  
Operating: 0° C to +60° C ambient  
Storage: -40 °C to +85 °C ambient  
Other temperature ranges upon request

### HUMIDITY

Maximum relative atmosphere humidity:  
non condensing: Working: 89 % | Storage: 95 %



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