



BOX PC-97

EM TRUST
systems you can trust

F-SERIES

APPLICATIONS

The **EM BoxPC-97** is the perfect Plug&Play system solution, especially designed for fanless applications. It is optimal adapted for:

- _ Control & Automation
scalable, long term availability,
flexible expansion
- _ Rugged Industrial Systems
no rotating parts, low power
- _ Medical Systems
Intel® Core™ performance,
high resolution graphics
- _ Public Terminal
Digital signage, multiple
display support, WiFi hotspot,
vending machines
- _ Communication
Mobile edge router, advanced
firewall, VPN appliances



Simultaneous use of UMTS and WLAN for extended router applications.



Frontpanel HDMI and Display Port interfaces.



Small installation depth.



Mobile BoxPC system in a strong aluminum housing.



Rugged & reliable choice for demanding embedded applications.



Wide range DC power input and AC power option.



E.E.P.D. 
...just embedded!

SPECIFICATIONS

CPU	Intel® 5th Generation Core™ and Intel® Celeron® processors
Max. memory	Up to 16 GB DDR3L dual-channel Memory support up to 1600 MT/s
Gigabit Ethernet	3 Intel® I210 with IEEE1588
LTE/4G (OPTIONAL)	300 Mbps max./EMEA, APAC/Diversity/GNSS
WiFi/BT (OPTIONAL)	802.11 AC with diversity/Bluetooth Version 5
SSD (OPTIONAL)	M.2 SATA / 64 - 512 GB
USB ports	2 USB 3.1 Gen1 2 USB 2.0
Serial ports (OPTIONAL)	2 RS-232 2 RS-422/485
CAN ports (OPTIONAL)	2 ports, 1 Mbps per port
Display Port connector	1 port, up to 3200 x 2000 @ 60 Hz
HDMI connector	1 port, up to 1440p @ 60 Hz
Sound	3.5 mm MIC In / headphone Out / line In
Health management	Hardware monitoring and Watchdog
Power supply	Min. 8 V / Max. 32 V (DC)
AC Power Supply (OPTIONAL)	Internal wide range 100 V to 240 V 50/60 Hz
Fanless	Designed for fanless operation
Max. operating temp.	0°C to +60°C ambient commercial grade
Max. storage temp.	-20°C to +80°C
Max. rel. humidity	95% @ 40°C, non-condensing
Housing	Aluminum case
Mounting	Stand alone or hat rail
Dimension approx.	DC version: 235 x 150 x 44 mm AC version: 235 x 230 x 44 mm
Weight approx.	DC version: 1250 grams + options AC version: 2200 grams + options
Conformity	CE, ROHS, REACH
OS support	Microsoft® Windows® 7; Microsoft® Windows® 7 embedded standard; Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux (Ubuntu 18.04 LTS, Yocto Kernel Version 4.1)

FANLESS DESIGN WITH HIGH PERFORMANCE



Ordering Code System	Description	Type
BPCF9A	F-Series System	Celeron 3765U / 2C / 2T / 1.9 GHz / 10 - 15 W
BPCF9B	F-Series System	i3-5010U / 2C / 4T / 2.1 GHz / 10 - 15 W
BPCF9C	F-Series System	i5-5350U / 2C / 4T / 2.9 GHz / 9.5 - 15 W
BPCF9D	F-Series System	i7-5650U / 2C / 4T / 3.1 GHz / 9.5 - 15 W
4GB-F97X	Main Memory	4 GB
8GB-F97X	Main Memory	8 GB

OVERVIEW

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

An optional wireless module supporting GPRS, EDGE, UMTS, HSPA and LTE is available. At the same time an optional Wireless LAN module can be used.

SUMMARY

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

OPTION	Description
SSA	SATA SSD 64 - 512 GB
LTE	LTE/4G Modem
WBT	WiFi/BT card
CM1	COM 1 RS-232 Port
CM2	COM 2 RS-232 Port
CM3	COM 3 RS-485/422 Port
CM4	COM 4 RS-485/422 Port
CN1	CAN 1 Port
CN2	CAN 2 Port
ACP	AC Power Supply
W10	Microsoft® Windows® 10
WIE	Microsoft® Windows® 10 IoT Enterprise
LNX	Linux Ubuntu 18.04 LTS



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