



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.

HIGH QUALITY



MADE IN GERMANY

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
Dimensions 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® 10; Microsoft® Windows® 10 IoT Enterprise; Linux (Ubuntu 18.04 LTS, Yocto Kernel Version 4.1)

FANLESS DESIGN WITH HIGH PERFORMANCE



Maximum 2 COM or CAN ports supported simultaneously

Ordering Code System	Description	Type
BPC97C	F-Series System	Celeron® 3765U / 2C / 2T / 1.9 GHz / 10 - 15 W
BPC97I3	F-Series System	i3-5010U / 2C / 4T / 2.1 GHz / 10 - 15 W
BPC97I5	F-Series System	i5-5350U / 2C / 4T / 1.8 - 2.9 GHz / 10 - 15 W
BPC97I7	F-Series System	i7-5650U / 2C / 4T / 2.2 - 3.1 GHz / 10 - 15 W
4GB-F97	Main Memory	4 GB
8GB-F97	Main Memory	8 GB

OVERVIEW

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

An optional wireless module supporting 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



The information contained in this document has been carefully checked and is believed to be reliable. However, E.E.P.D. GmbH makes no guarantee or warranty concerning the accuracy of said information and shall not be responsible for any loss or damage of what ever nature resulting from the use of, or reliance upon, it. E.E.P.D. does not guarantee that the use of any information contained herein will not infringe upon the patent, trademark, copyright or other rights of third parties, and no patent or other license is implied hereby. GmbH. Intel and the Intel logo are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or other countries.

This document does not in any way extend E.E.P.D.'s warranty on any product beyond that set forth in its standard terms and conditions of sale. E.E.P.D. reserves the right to make changes in the products or specifications, or both, presented in this publication at any time and without notice. LIFE SUPPORT APPLICATIONS: E.E.P.D.'s products are not intended for use as critical components in life support appliances, devices or systems in which the failure of a E.E.P.D. product to perform could be expected to result in personal injury. All mentioned trademarks are registered trademarks of their owner.

© 2021 by E.E.P.D. GmbH. All rights reserved. March 3rd 2021 – Version 2.2

E.E.P.D. Electronic Equipment Produktion & Distribution GmbH

Gewerbering 3
85258 Weichs - Germany
Phone +49 8136 2282-0
Fax +49 8136 2282-109
Internet: www.eepd.de
E-Mail: sales@eepd.de