



BOXPC-38

EM TRUST
systems you can trust

APPLICATIONS

The **EM Box® PC-38** is the perfect Plug&Play system solution, especially designed for fanless applications. It is optimal adapted for:

_ Industrial Control & Automation

scalable, long term availability,
flexible expansion

_ Measurement & Control

multiple graphics

_ Medical Solutions

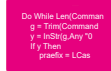
Intel® Atom™ performance, high
resolution graphics

_ Infotainment

_ Remote Management

_ Extended Industrial Router

F-SERIES



Full software compatibility.



Integration-, application-
and training-services
available.



Simultaneous use of UMTS
and WLAN for extended
router applications.



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

15 years
long life
support¹

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

SPECIFICATIONS

CPU	Intel® Atom™ processors E38x series Single, Dual (opt.) and Quad Core ¹
Max. memory	Up to 8 GB DDR3L memory / 667 MHz
Gigabit Ethernet	2 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)	mSATA / 64 - 512 GB
USB ports	1 USB 3.1 Gen1 4 USB 2.0
Serial port	1 RS-232
Serial ports (OPTIONAL)	2 RS-232 1 RS-422/485
CAN port (OPTIONAL)	1 port, 1 Mbps per port
DVI-I connector	1 DVI-I with VGA support
Sound (OPTIONAL)	3.5 mm MIC In / headphone Out
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 comm. grade -40°C to +85°C ambient ind. grade (optional)
Max. storage temp.	-20°C to +105°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 Project 2.5.1)

¹15 years availability according to CPU manufacturers specification

FANLESS DESIGN WITH VARIOUS SERIAL PORTS



Ordering Code System	Description	Type
BPC38Q	F-Series System	Atom™ E3845 / 4C / 4T / 1.91 GHz / 10 W
BPC38S	F-Series System	Atom™ E3815 / 1C / 1T / 1.46 GHz / 5 W
2GB-F38	Main Memory	2 GB
4GB-F38	Main Memory	4 GB
8GB-F38	Main Memory	8 GB

SSA	LTE	WBT
X	X	-
X	-	X
-	X	X

SSA, LTE, WBT
combination matrix

OVERVIEW

The EM Box® PC is powered by Intel® Atom™ processors E38xx series.

An optional wireless module supporting LTE/4G is available.

At the same time an optional WiFi module can be used.

SUMMARY

- ▶ Fanless operation
- ▶ Gigabit Ethernet port
- ▶ SATA interfacing
- ▶ Modem solution with SIM Card reader

OPTION	Description
SSA	SATA SSD 64 - 512 GB
LTE	LTE/4G Modem
WBT	WiFi/BT card
CM2	COM 2 RS-232 Port
CM3	COM 3 RS-232 Port
CM4	COM 4 RS-485 Port
CAN	CAN Port
SND	3.5 mm / MIC In / Headphone Out
ACP	AC Power Supply
W10	Microsoft® Windows® 10
WIE	Microsoft® Windows® 10 IoT Enterprise
LNx	Linux Ubuntu 18.04 LTS

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