APPLICATIONS

F-SERIES

The **EM BoxPC-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

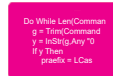_ Measurement & Control

  multiple graphics

_ Medical Solutions

  Intel® Atom™ performance, high resolution graphics

_ Infotainment

_ Remote Management

_ Extended Industrial Router

Do While Len(Comman
g = Trim(Command
y = InStr(g,Any "0
If y Then
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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 support [1]

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)

[1]15 years availability according to CPU manufacturers specification

OVERVIEW

The EM BoxPC 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

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

SSA, LTE, WBT combination matrix

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

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

intel | IoT Solutions Alliance

TÜV SÜD
Certified Quality Management System
ISO 9001
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