



## APPLICATIONS

The **EM Box® PC-NUCI** is the perfect communication gateway for industrial IoT applications.

It is a german engineered and produced high quality BoxPC System. It is optimal adapted for:

### \_ Mobile Systems

- flexible wireless VPN solution,
- automotive power input,
- embedded next unit of computing

### \_ Medical Solutions

- Intel® Atom™ performance

### \_ Automatic Control

- scalable, long term availability,
- flexible expansion

### \_ Rugged Industrial Systems

- designed for low-power, noiseless and extreme temperature environments

eNUC



With a large number of interfaces in a small package, a wide range of applications are supported.



A customized frontpanel design is optional available.



The BoxPC is designed for industrial-grade communication applications in extreme temperature environments.



BoxPC system with high computer performance and small dimensions.



Expand your system with various USB options.



Optimized system for harsh and tough environments.

HIGH QUALITY  
MADE IN GERMANY

15 years  
long life  
support<sup>1</sup>

12/24 V

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

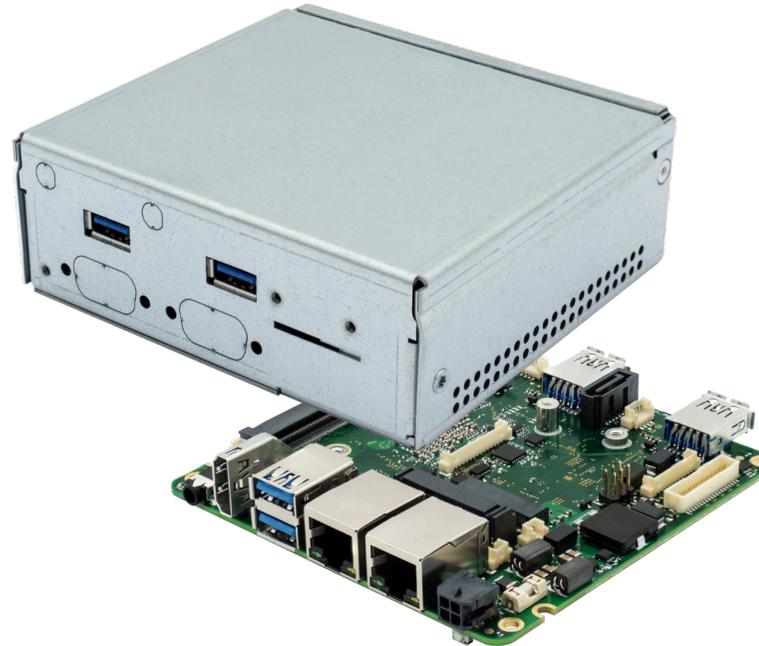
## SPECIFICATIONS

CPU	Intel® Atom™ processors E3900 series <sup>1</sup>
Max. memory	Up to 8 GB DDR3L memory
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)	M.2 SATA / 64 - 512 GB
SD-Card	1 MicroSD-Card socket
USB ports	2 USB 3.1 Gen1   2 USB 2.0
Serial ports (OPTIONAL)	1 RS-232   1 RS-232/485
HDMI connector	1 standard HDMI connector v1.4
Sound	3.5 mm MIC In / headphone Out
Health management	Hardware monitoring and Watchdog
Other	Power and status LEDs
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade   KL15
Fanless	Designed for fanless operation (not all models)
Max. operating temp.	-40°C to +85°C ambient ind. grade 0°C to +60°C ambient comm. grade
Max. storage temp.	-40°C to +105°C
Max. rel. humidity	95 % @ 40°C, non-condensing
Housing	Sturdy metal case
Mounting	Stand alone or hat rail
Dimensions approx.	117 x 45 x 120 mm
Weight approx.	550 grams + options
Conformity	CE, ROHS, REACH
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux (Yocto Project 2.5.1, Ubuntu 18.04 LTS)

<sup>1</sup>15 years availability according to CPU manufacturers specification



## RUGGED X86 APPLICATIONS INDUSTRIAL TEMPERATURE RANGE



## OVERVIEW

The EM Box® PC-NUCI is the perfect industrial grade communicator for secure and reliable IoT communication. It is designed as a flexible low power system with an excellent performance-per-watt ratio.

## SUMMARY

- ▶ Extended temperature
- ▶ Flexible communication
- ▶ OEM/ODM with customer branding in small quantities available
- ▶ Easy mounting
- ▶ High performance
- ▶ Small dimensions

Ordering Code System	Description	Type	OPTION	Description
BPCNIC	eNUC System passive cooled	X5-E3930 / 2C / 2T / 1,3 GHz / 2 MB cache / 6.5 W	SSA	SATA SSD 64 - 512 GB
BPCNID	eNUC System active cooled	X5-E3940 / 4C / 4T / 1,6 GHz / 2 MB cache / 9.5 W	LTE	LTE/4G Modem Not in combination with WBT
			WBT	WiFi/BT card
BPCNIE	eNUC System active cooled	X7-E3950 / 4C / 4T / 1,6 GHz / 2 MB cache / 12 W	CM1	COM 1 RS-232 Port
4GB-NUCI	Main Memory	4GB	CM2	COM 2 RS-232/485 Port
8GB-NUCI	Main Memory	8GB	W10	Microsoft® Windows® 10
			WIE	Microsoft® Windows® 10 IoT Enterprise
			LNx	Linux Ubuntu 20.04 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. AMD and the AMD logo are trademarks of Advanced Micro Devices, Inc. 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.

© 2024 by E.E.P.D. GmbH. All rights reserved. March 12 2024 – Version 2.4

**E.E.P.D. Electronic Equipment  
Produktion & Distribution GmbH**  
Gewerbering 3  
85258 Weichs - Germany  
Phone +49 8136 2282-0  
Internet: [www.eepd.de](http://www.eepd.de)  
E-Mail: [sales@eepd.de](mailto:sales@eepd.de)