



## APPLICATIONS

The **EM BoxPC-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.

## 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 BoxPC-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
BPCNIE	eNUC System active cooled	X7-E3950 / 4C / 4T / 1,6 GHz / 2 MB cache / 12 W	WBT	WiFi/BT card
4GB-NUCI	Main Memory	4GB	CM1	COM 1 RS-232 Port
8GB-NUCI	Main Memory	8GB	CM2	COM 2 RS-232/485 Port
			W10	Microsoft® Windows® 10
			WIE	Microsoft® Windows® 10 IoT Enterprise
			LNX	Linux Ubuntu 20.04 LTS



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**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](http://www.eepd.de)  
E-Mail: [sales@eepd.de](mailto:sales@eepd.de)