



# BOXPC-NUCI



eNUC

## 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



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



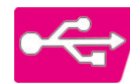
A customized frontpanel design is optional available.



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



Ordering Code System	Description	Type
BPCNIC	eNUC System passive cooled	X5-E3930 / 2C / 2T / 1,3 GHz / 2 MB cache / 6.5 W
BPCNID	eNUC System active cooled	X5-E3940 / 4C / 4T / 1,6 GHz / 2 MB cache / 9.5 W
BPCNIE	eNUC System active cooled	X7-E3950 / 4C / 4T / 1,6 GHz / 2 MB cache / 12 W
4GB-NUCI	Main Memory	4GB
8GB-NUCI	Main Memory	8GB

## 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

OPTION	Description
SSA	SATA SSD 64 - 512 GB
LTE	LTE/4G Modem Not in combination with WBT
WBT	WiFi/BT card Not in combination with LTE
CM1	COM 1 RS-232 Port
CM2	COM 2 RS-232/485 Port
W10	Microsoft® Windows® 10
WIE	Microsoft® Windows® 10 IoT Enterprise
LNX	Linux Ubuntu 18.04 LTS



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