



# BOXPC-NUCI

**EM TRUST**  
systems you can trust

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
- \_ 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 whole lot of great applications are possible.



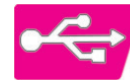
A customized frontpanel design is optional available.



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 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	Yes (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
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
Dimension approx.	116.4 x 46.5 x 119.2 mm
Weight approx.	260 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, Android 6.0)

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

## RUGGED X86 APPLICATIONS INDUSTRIAL TEMPERATURE RANGE



Ordering Code System	Description	Type
BPCNIB	eNUC System passive cooled	X5-E3930 / 2C / 2T / 1.8 GHz / 2 MB cache / 6.5 W
BPCNIC	eNUC System passive cooled	X5-E3940 / 4C / 4T / 1.8 GHz / 2 MB cache / 9.5 W
BPCNID	eNUC System passive cooled	X5-E3950 / 4C / 4T / 2.0 GHz / 2 MB cache / 12 W
2GB-NUCIX	Main Memory	2 GB
4GB-NUCIX	Main Memory	4 GB
8GB-NUCIX	Main Memory	8 GB

## 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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