

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.



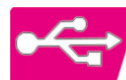
A customized frontpanel design is optional available.



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.

SPECIFICATIONS

CPU	Intel® Atom™ processors E3900 series ¹
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)

¹15 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
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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