EM TRUST
systems you can trust

BOXPC-NUCR

APPLICATIONS

The **EM BoxPC-NUCR** is the perfect intelligent IoT edge node. It is a german engineered and produced high quality BoxPC System. It is optimal adapted for:

_ AI Systems
_ ML Machine Learning
_ CV Computer Vision
_ Robotics
_ Medical Solutions
AMD Ryzen™ performance
_ Mobile Systems
automotive power supply
_ Rugged Industrial Systems
no rotating parts, low power
_ IoT
edge / fog gateway

[1]10 years availability according to CPU manufacturers specification

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.

Simultaneous use of UMTS and WLAN for extended router applications.

HIGH QUALITY
MADE IN GERMANY

10 years long life support [1]

12/24 V

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

SPECIFICATIONS

CPU	AMD R1000 series[1], up to 3.5 GHz
Max. memory	32 GB dual channel DDR4 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 or NVMe / 64 - 512 GB
SD-Card	1 MicroSD-Card socket
USB ports	1 Dual USB 3.1 Gen2 (10Gb/s, limited by fuse to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA each)
Serial ports (OPTIONAL)	1 RS-232 | 1 RS-232/485 (FDX)
DP connectors	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
Sound (OPTIONAL)	3.5 mm MIC In / headphone Out
Health monitoring and management	Controllable FAN (PWM + Tacho), hardware monitoring and Watchdog
Other	Power and status LEDs
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade | KL15
Max. operating temp.	0°C to +60°C ambient commercial grade; other on request
Max. storage temp.	-40°C to +85°C
Max. relative humidity	95% @ 40°C, non-condensing
Housing	Sturdy metal case
Mounting	Stand alone or hat rail
Dimensions approx.	117 x 44 x 113 mm
Weight approx.	700 g + options
Conformity	CE, ROHS, REACH
OS support OS license is optional	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux Ubuntu 20.04 LTS

VERSATILE COMMUNICATION BY A LARGE NUMBER OF INTERFACES

OVERVIEW

The BoxPC-NUCR 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

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

Ordering Code System	Description	Type
BPCNRA	eNUC System	R1505G / 2C / 4T / 2.4 GHz - 3.3 GHz / 12 - 25 W
BPCNRB	eNUC System	R1606G / 2C / 4T / 2.6 GHz - 3.5 GHz / 12 - 25 W
4GB-NUCR	Main Memory	4 GB
8GB-NUCR	Main Memory	8 GB
16GB-NUCR	Main Memory	16 GB

OPTION	Description
SSA	SATA SSD 64 - 512 GB
SSN	NVMe SSD 64 - 512 GB
LTE	LTE/4G Modem
WBT	WiFi/BT card
CM1	COM 1 RS-232 Port
CM2	COM 2 RS-232/485 Port
SND	3.5 mm / MIC IN / Headphone OUT
W10	Microsoft® Windows® 10
WIE	Microsoft® Windows® 10 IoT Enterprise
LNX	Linux Ubuntu 18.04 LTS

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