



BOXPC-NUCV

EM TRUST
systems you can trust

eNUC

APPLICATIONS

The **EM BoxPC-NUCV** 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

² The NUCV supports only 35W TDP settings



With a large number of interfaces in a small package, a whole lot of great applications are possible.



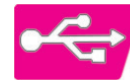
A customized frontpanel design is optional available.



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.



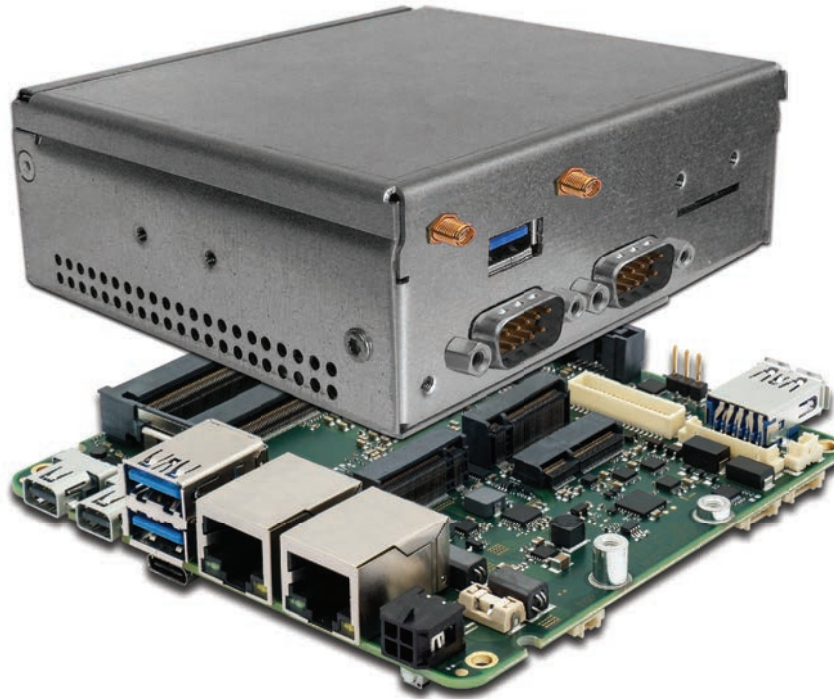
Simultaneous use of UMTS and WLAN for extended router applications.



SPECIFICATIONS

CPU	AMD V1000 series ¹ , up to 3.8 GHz Up to 4 cores, 8 threads, max. 35W supported
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	3 USB 3.1 Gen1
Serial ports (OPTIONAL)	1 RS-232 1 RS-232/485
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
Dimension approx.	116.4 x 46.5 x 119.2 mm
Weight approx.	300 grams + options
Conformity	CE, ROHS, REACH
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Linux Ubuntu 18.04 LTS
OS license is optional	

VERSATILE COMMUNICATION BY A LARGE NUMBER OF INTERFACES



OVERVIEW

The BoxPC-NUCV 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
BPCNVA	eNUC System	V1202B / 2C / 4T / 2.3 GHz - 3.2 GHz / 12 - 25 W
BPCNVB	eNUC System	V1605B / 4C / 8T / 2.0 GHz - 3.6 GHz / 12 - 25 W
BPCNVC	eNUC System	V1756B / 4C / 8T / 3.25 GHz - 3.6 GHz / 35 - 54 W ²
BPCNVD	eNUC System	V1807B / 4C / 8T / 3.35 GHz - 3.8 GHz / 35 - 54 W ²
4GB-NUCVX	Main Memory	4 GB
8GB-NUCVX	Main Memory	8 GB
16GB-NUCVX	Main Memory	16 GB

Ordering Code CPU	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



The information contained in this document has been carefully checked and is believed to be reliable. However, E.E.P.D. GmbH makes no guarantee or warranty concerning the accuracy of said information and shall not be responsible for any loss or damage of what ever nature resulting from the use of, or reliance upon, it. E.E.P.D. does not guarantee that the use of any information contained herein will not infringe upon the patent, trademark, copyright or other rights of third parties, and no patent or other license is implied hereby. AMD® and the AMD® logo are trademarks or registered trademarks of Advanced Micro Devices, Inc. or its subsidiaries in the United States and other countries.

This document does not in any way extend E.E.P.D.'s warranty on any product beyond that set forth in its standard terms and conditions of sale. E.E.P.D. reserves the right to make changes in the products or specifications, or both, presented in this publication at any time and without notice.

LIFE SUPPORT APPLICATIONS: E.E.P.D.'s products are not intended for use as critical components in life support appliances, devices or systems in which the failure of a E.E.P.D. product to perform could be expected to result in personal injury. All mentioned trademarks are registered trademarks of their owner.

© 2019 by E.E.P.D. GmbH. All rights reserved. March 14th 2019 – Version 1.1

**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
E-Mail: sales@eepd.de