

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

¹10 years availability according to CPU manufacturers specification
²The NUCV supports only max. 35W TDP settings

eNUC



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



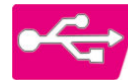
A customized frontpanel design is optional available.



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
support¹



12/24 V

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

SPECIFICATIONS

CPU	AMD V1000 series ¹ , up to 3.8 GHz Up to 4 cores, 8 threads max. 35 W 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	1 Dual USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA) 1 internal USB 3.1 Gen2 (10Gb/s, limited by fuse protection to: 900mA)
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
fTPM	AMD firmware Trusted Platform Module
Other	Power and status LEDs
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade KL15/terminal 15
Max. operating temp.	0°C to +60°C ambient commercial grade; other on request V1807 deviating 0°C to +50°C
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.	120 x 117 x 47 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



Ordering Code System	Description	Type
BPCNVA (OEM only)	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 (OEM only)	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-NUCV	Main Memory	4 GB
8GB-NUCV	Main Memory	8 GB
16GB-NUCV	Main Memory	16 GB

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

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
LNK	Linux Ubuntu 20.04 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 of Advanced Micro Devices, Inc. Intel and the Intel logo are trademarks of Intel Corporation or its subsidiaries in the U.S. and/or 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 could be expected to result in personal injury. All mentioned trademarks are registered trademarks of their owner.

© 2021 by E.E.P.D. GmbH. All rights reserved. October 27 2021 – Version 1.8

**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