

## APPLICATIONS

The **EM BSNP-NUCD** is a german engineered and produced high quality fanless BoxPC System. Designed as a flexible low power system with an excellent performance-per-watt ratio it is optimal adapted for:

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

<sup>1</sup>10 years availability according to CPU manufacturers specification



HIGH QUALITY  
MADE IN GERMANY

 10 years  
long life  
support<sup>1</sup>

**AMD**  
**RYZEN**  
Embedded

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

SPECIFICATIONS

CPU	AMD R2000 series <sup>1</sup> , up to 3.5 GHz Up to 4 cores, 4 threads, max. 25 W supported
Max. memory	Up to 32 GB dual channel DDR4 memory
Gigabit Ethernet	2 Intel® I225* with IEEE1588
SD-Card	1 MicroSD-Card socket
M.2 socket	1 Key B, 30 mm x 42 mm with onboard SIM Card socket 1 Key E, 22 mm x 30 mm 1 Key M, 22 mm x 42 mm (for NVMe and SATA only)
USB port	1 Dual USB 3.1 Gen2 (10Gb/s, fused to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, fused to: 900mA) 1 internal USB 3.1 Gen2 (10Gb/s, fused to: 900mA)
Serial port	1 RS-232 1 RS-232/485 (FDX)
DP connector	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
Sound	HDA with MIC In / headphone Out / Line In / Line Out
Health monitoring and management	Hardware monitoring and watchdog
fTPM	AMD firmware Trusted Platform Module TPM 2.0 support (Infineon SLB9670)
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
Size approx.	130 x 56 x 119 mm
Weight approx.	900g + options
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Microsoft® Windows® 11; Linux Ubuntu 20.04 LTS

\*technische Daten gelten ab Rev. 5



Ordering Code System	Description	Type
BSNP_NUCDA	eNUC System	R2312   2C   4T   2.7 GHz - 3.5 GHz   12 - 25W
BSNP_NUCDB	eNUC System	R2314   4C   4T   2.1 GHz - 3.5 GHz   12 - 25W
4GB-NUCD	Main Memory	4 GB
8GB-NUCD	Main Memory	8 GB
16GB-NUCD	Main Memory	16 GB
32GB-NUCD	Main Memory	32 GB

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 to perform could be expected to result in personal injury. All mentioned trademarks are registered trademarks of their owner.

© 2024 by E.E.P.D. GmbH. All rights reserved. November 19 2024 – Version 1.2

**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](http://www.eepd.de)  
E-Mail: [sales@eepd.de](mailto:sales@eepd.de)