

APPLICATIONS

The **EM BOX® BSNP-NUCE** 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 optimally adapted for:

- _ AI Systems
- _ Medical Solutions
 - AMD Ryzen™ performance
- _ ML Machine Learning
- _ CV Computer Vision
- _ Robotics
- _ Micro-Server
- _ High-Performance Workstations
- _ Rugged Industrial Systems
 - no rotating parts, low power
- _ IoT
 - edge / fog gateway



HIGH QUALITY
MADE IN GERMANY

 10 years availability
according to CPU
manufacturers
specification

AMD
RYZEN
Embedded

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

SPECIFICATIONS

CPU	AMD V2000 series, up to 3.95 GHz Up to 6 cores, 12 threads, max. 15 W supported
Max. memory	Up to 2x 32 GB DDR4-3200 SO-DIMM memory with ECC and dual channel support
SSD (optional)	1 M.2 SATA or up to 2 NVME / 64-512 GB
Gigabit Ethernet	2 Intel® I225 with 2,5 Gbit/s and IEEE1588 Wake-on-LAN supported by one port
USB A port	1 Dual USB 3.1 Gen2 (10Gb/s, fused to: 1500mA each)
USB-C connector	1 USB-C 3.1 Gen2 or ALT-Mode support (10Gb/s, fused to: 3000mA)
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 at a 3.5 mm Audio Jack / Line in / Line out
Health monitoring and management	Hardware monitoring and watchdog
fTPM / TPM	AMD firmware Trusted Platform Module TPM 2.0 support (Infineon SLB9670)
Other	Power and Status LEDs
WiFi	802.11 AC with diversity (OEM only)
Power supply	Min. 10.8 V / Max. 26.4 V (DC)
Max. operating temp.	0°C to +50°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 113 mm (width x height x depth)
Weight approx.	900g + options
OS support	Microsoft® Windows® 10; Microsoft® Windows® 10 IoT Enterprise; Microsoft® Windows® 11; Linux Ubuntu 22.04 LTS

Ordering Code System	Description	Type
BSNP-NE-RISC-1	eNUC System	V2516 6C 12T 2.1 GHz - 3.95 GHz 10 - 15W



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