



APPLICATIONS

The **EM BSNP-NUCS** with **AMD Ryzen™ PRO 6000** was designed as a low power eNUC BoxPC with an excellent performance-per-watt ratio. With **“Zen 3” architecture** and **RDNA 2 iGPU** it is ideally suited for:

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



SPECIFICATIONS

CPU	AMD R6000 PRO series Up to 4.5 GHz, 6 cores, 12 threads, max. 28W supported
Max. memory	64 GB dual channel DDR5 SO-DIMM memory with ECC-support
Gigabit Ethernet	2 Intel® I226 with 2,5 Gbit/s TSN-support Wake-On-LAN supported by one port
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 80 mm (for NVMe only)
USB ports	1 Dual USB 3.1 Gen2 (10Gb/s, fused to: 900mA each)
USB-C connector	2 USB-C 3.1 Gen2 or ALT-Mode support (10Gb/s, fused to 1500mA)
DP connectors	2 Mini-DP++ connectors up to 4096 x 2160 @ 60 Hz
Serial port	2 RS-232/485 (HDX/FDX)
Sound	HDA with MIC in / Headphone out at a 3.5 mm Audio Jack / Line in / Line out
fTPM / TPM	AMD firmware Trusted Platform TPM 2.0 support (Infineon SLB 9670)
Health monitoring and management	Hardware monitoring and watchdog
Other	Power and status LEDs
Power supply	Min. 10.8 V / Max. 26.4 V (DC)
Max. operating temp.	0°C to +60° 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® 11 Microsoft® Windows® 10 IoT Enterprise Microsoft® Windows® 10 Linux Ubuntu 20.04 LTS



Ordering Code System	Description	Type
BSNP_NUCSC	eNUC System	6650U 6C 12T 2.9 GHz - 4.5 GHz 28W
4GB-NUCS	Main Memory	4 GB
8GB-NUCS	Main Memory	8 GB
16GB-NUCS	Main Memory	16 GB
32GB-NUCS	Main Memory	32 GB

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