BSNP-NUCR

APPLICATIONS

The **EM BSNP-NUCR** is the perfect intelligent IoT edge node. It is a german engineered and produced high quality fanless BoxPC System. Designed as a flexible ow power system with an excellent performance-per-watt ratio 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

HIGH QUALITY
MADE IN GERMANY

10 years
long life
support ¹

12/24 V

AMD
RYZEN
Embedded

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

SPECIFICATIONS

CPU	AMD R1000 series[1], up to 3.5 GHz 2 cores, up to 4 threads, max. 25W 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 to: 900mA each) 1 Rear USB 3.1 Gen2 (10Gb/s, limited to: 900mA each)
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	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
Dimensions approx.	130 x 56 x 119 mm
Weight approx.	900 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

Ordering Code System	Description	Type
BSNP_NUCRA	eNUC System	R1505G | 2C | 4T | 2.4 GHz - 3.3 GHz | 12 - 25 W
BSNP_NUCRC	eNUC System	R1102G | 2C | 2T | 1.2 GHz - 2.6 GHz | 6 W
4GB-NUCR	Main Memory	4 GB
8GB-NUCR	Main Memory	8 GB
16GB-NUCR	Main Memory	16 GB