BOXPC-NUCA

APPLICATIONS

The **EM Box® PC-NUCA** is the perfect communication gateway for industrial IoT applications. Especially designed for low-power, noiseless and extreme temperature environments. No fans or other rotating devices are used. It is a german engineered and produced high quality BoxPC system, offering high performance in tough environments.

_ Automotive Solutions

   automotive grade power supply

_ Gateways

_ Medical Solutions

   ARM® performance

_ Automation Control

   scalable, long term availability,

   flexible expansion

_ Information Systems

_ Rugged Industrial Systems

   no rotating parts, low-power

_ Measurement

eNUC

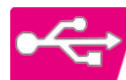BoxPC system with high computer performance and small dimensions.

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

The BoxPC is designed for industrial-grade communication applications in extreme temperature environments.

A customized frontpanel design is optional available.

Expand your system with various USB options.

Optimized system for harsh and tough environments.

15 years long life support [1]

12/24 V

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

SPECIFICATIONS

CPU	NXP i.MX6 processor[1]
Max. memory	Up to 2 GB DDR3L soldered memory onboard
Gigabit Ethernet	Up to 2[2] (Micrel KSZ9031RNX, Intel® I210 with IEEE1588)
LTE/4G (OPTIONAL)	300 Mbps max./EMEA, APAC/Diversity/GNSS
WiFi/BT (OPTIONAL/not in combination with LTE/4G)	802.11 AC with diversity/Bluetooth Version 5
SSD (OPTIONAL)	M.2 SATA / 64 - 512 GB
SD-Card	Up to 2 MicroSD-Card sockets
USB ports	Up to 4 USB 2.0
USB client port	1 Micro-USB 2.0
Serial port (OPTIONAL)	1 RS-232/485
CAN ports (OPTIONAL)	2 ports, 1 Mbps per port
HDMI connector	1 standard HDMI connector v1.4
Sound	3.5 mm MIC In / headphone Out
Other	RTC	Watchdog	Temperature sensor
Power supply	Min. 8 V / Max. 32 V (DC) automotive grade	KL15
Fanless	Designed for fanless operation
Max. operating temp.	-40 °C to +85 °C ambient industrial grade
Max. storage temp.	-40 °C to +105 °C
Max. rel. humidity	95 % @ 40 °C, non-condensing
Housing	Sturdy metal case
Mounting	Stand alone or hat rail
Dimensions approx.	117 x 120 x 45 mm
Weight approx.	550 grams + options
Conformity	CE, ROHS, REACH
OS support	Linux (Yocto Project w/ FSL Community BSP 2.3)

[1] 15 years availability according to CPU manufacturers specification
[2] 1st GbE port currently limited to 480 MBit/s

MOBILE APPLICATIONS

EQUIPPED WITH AN AUTOMOTIVE POWER SUPPLY

OVERVIEW

The EM Box® PC-NUCA 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

Ordering Code System	Description	Type
BPCNAA	eNUC System passive cooled	i.MX6 Solo / 800 MHz 256 MB memory down 1 GbE 1 MicroSD-Card
BPCNAB	eNUC System passive cooled	i.MX6 Quad / 800 MHz 2 GB memory down 2 GbE 2 MicroSD-Cards PCIe MiniCard w/o PCIe (USB only)

OPTION	Description
SSD	SATA SSD 64 - 512 GB
LTE	LTE/4G Modem Not in combination with WBT
WBT	WiFi/BT card BPCNAB only Not in combination with LTE
COM	COM 1 RS-232/485 Port
CN1	CAN 1 Port
CN2	CAN 2 Port
LNX	Linux Yocto Project