

BOXPC-NUCO



APPLICATIONS

The **EM BoxPC-NUCO** 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.

- _ Rugged Industrial Systems no rotating parts, low-power
- _ Gateways
- _ Medical Solutions ARM® performance
- _ Telecommunication industrial-grade outdoor routers
- _ Automation Control scalable, long term availability, flexible expansion
- _ Information Systems
- _ Measurement USB-Client-Port







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 avail-able.



Expand your system with various USB options.



Optimized system for harsh and tough environments.









SPECIFICATIONS

CPU NXP i.MX6 processors¹

Up to 1 GB DDR3 soldered memory Max. memory

onboard

Gigabit Ethernet Up to 2 (MICREL KSZ9031RNX²,

Intel® I210 with IEEE1588)

First LTE/4G (OPTIONAL) 300 Mbps max./EMEA, APAC/Diversity/

Second LTE/4G (OPTIONAL) 300 Mbps max./EMEA, APAC/Diversity/

WiFi/BT (OPTIONAL | BPCNOB only I not in combination with

second LTE)

802.11 ACwith diversity/ Bluetooth Version 5

NAND flash 2 Gbit

SD-Card 1 MicroSD-Card (up to SDR104

speed grade; 104 MB/s max.)

USB ports 2 USB 2.0

USB OTG OEM/ODM option Serial ports (OPTIONAL) 2 RS-232 | 2 RS-485

Other RTC | Watchdog | Temperature sensor

Min. 8 V / Max. 60 V (DC) Power supply **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 550 grams + options Weight approx. Conformity CE, ROHS, REACH

OS support Linux (Yocto Project w/

FSL Community BSP 2.3)



1st GbE port currently limited to 480 MBit/s

FLEXIBLE COMMUNICATION

BY A LARGE NUMBER OF WIRELESS INTERFACES



Ordering Code System	Description	Туре
BPCNOA	eNUC System passive cooled	i.MX6 Solo / 800 MHz 256 MB memory down / 1 GbE 1 PCI Express® Mini Card USB only
BPCNOB	eNUC System passive cooled	i.MX6 Quad / 800 MHz 1 GB memory down / 2 GbE

OVERVIEW

The BoxPC-NUCO 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-perwatt ratio.

SUMMARY

- ► Extended temperature
- ► Flexible communication
- ▶ OEM/ODM with customer branding in small quantities available
- ► Easy mounting
- ► High performance
- ► Small dimensions

LT1 First LTE/4G Modem LT2 Second LTE/4G Modem WBT WiFi/BT card BPCNOB only Not in combination with LT2 CM1 COM 1 RS-232 Port CM2 COM 2 RS-485 Port HDX CM3 COM 3 RS-485 Port HDX CM4 COM 4 RS-232 Port LNX Linux Yocto Project	OPTION	Description	
WBT WiFi/BT card BPCNOB only Not in combination with LT2 CM1 COM 1 RS-232 Port CM2 COM 2 RS-485 Port HDX CM3 COM 3 RS-485 Port HDX CM4 COM 4 RS-232 Port	LT1	First LTE/4G Modem	
BPCNOB only Not in combination with LT2 CM1	LT2	Second LTE/4G Modem	
CM2	WBT	BPCNOB only	
CM3	CM1	COM 1 RS-232 Port	
CM4 COM 4 RS-232 Port	CM2	COM 2 RS-485 Port HDX	
	CM3	COM 3 RS-485 Port HDX	
LNX Linux Yocto Project	CM4	COM 4 RS-232 Port	
	LNX	Linux Yocto Project	

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