

B-NIMIS MC PI-PRO



Easy visualization

via VNC and web interface as well as additional digital display interface

State-of-the-art - maximum performance

through the use of the Compute Module 4 and thus the latest Raspberry technology

Powerful complement

to the B-Nimis MC-Pro, of course with continuation of its features

Excellent real-time performance

thanks to quadcore and perfect harmony between hardware and software

No limits for your applications

due to more than enough memory (8GB) which can still be expanded

Future-proof control system

thanks to great flexibility in the configuration and standardization of the CPU module

Perfectly integrated into the Berghof I/O portfolio

by means of EtherCAT standard fieldbus and modular expandability - plug & play

No service costs

due to maintenance-free control concept

Wide range of applications

thanks to industrial temperature ranges

Secured communication

via internal bus system, between modules with guaranteed vibration-proof connection

Best protection

by a consistent EMC concept with Line shielding and internal grounding

Prepared for worldwide use

thanks to availability of all required certificates (CE, UL, EAC, CCC, etc.)



B-NIMIS MC-PI PRIME

Powerful complement

to the B-Nimis MC-Pi Pro, of course with continuation of its features

Unsurpassed flexibility

thanks to modular expandability and arbitrary partitioning within the plant control system, open for all fieldbuses

Easy data management

thanks to more than enough retain memory

Optimally evaluated, analyzed or exchanged

by means of storage or backup of data or project planning on the SD card of the PLC

Erweiterte Grundausstattung

with additive features compared to the B-Nimis MC-Pi Pro

- 2 x Host USB 3.0 / USB-plug type A
- 2 x Host USB 2.0 / USB-plug type A
- 1 x uSD (SDXC)

Sophisticated update concept

with time-saving update processes via USB or SD card for firmware and customer applications in the field

Simple and fast commissioning

through preconfigured devices or automatic configuration via USB stick

Time-optimized fault analysis

using a tried-and-tested diagnostic concept



Future-proof connection

via state-of-the-art communication interfaces such as USB 3.0, Gigabit Ethernet and WLAN

State-of-the-art - maximum performance

through the use of the Compute Module 4 and thus the latest Raspberry technology

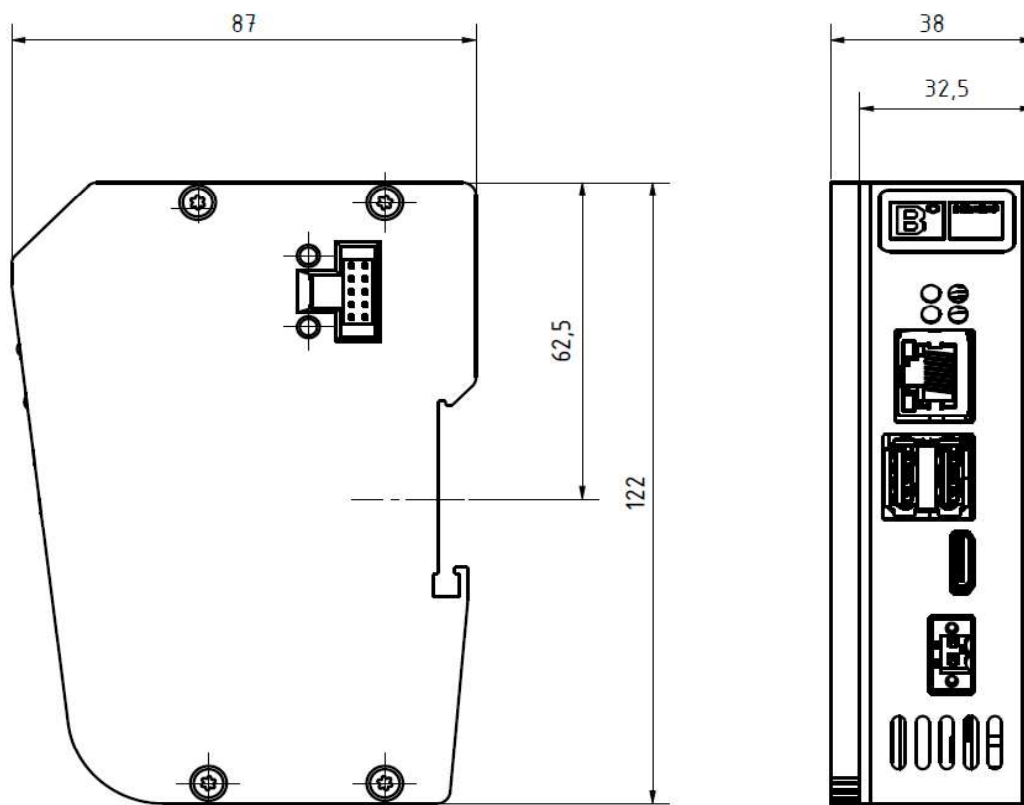
B-NIMIS MC PI-PRO

INFORMATION TECHNICAL DATA

B-Nimis MC Pi-Pro	Specification	
Description	MC Pi-Pro S01	MC Pi-Pro S02
Order number	S-01030301-0100	S-01030301-0200
Dimensions WxHxD [mm]	38 x 122 x 87	
Mounting	Rail mounting NS 35/7,5 EN 50022	
Certification	CE (EN 61131-2)	
Development environment	CODESYS V3 (IEC61131-3)	
CPU	BCM2711, 1,5 GHz Quad Core	
RAM /Flash /Retain	1GB RAM / 8GB Flash / 200 kB Retain	2GB RAM / 8GB Flash / 200 kB Retain
Communication interfaces	1x Ethernet 10/100/1000 Base, RJ45	
	1x EtherCAT LVDS	
	-	WLAN/Bluetooth (optional)
Protocols	Standard: EtherCAT Master Optional: Modbus TCP, SNMP, OPCuA, Ethernet/IP, PROFINET, BACnet, KNX, NTP, FTP, IoT CANOpen Master and J1939 with additional MC-IO Module	
Visualization	Standard: TargetVisu (VNC Server, Display interface) Optional: WebVisu (WebServer, HTML5)	
Additional features	1x Host USB 3.0 / USB plug type A	
	1x Host USB 2.0 / USB plug Type A	
	1x Digital display interface	
	1x 2 Pin JST for cooling fan (5V)	
	1x Real Time Clock, 72h Puffer	
	Extended heat sink (optional)	
Extensions	B-Nimis MC-IO EtherCAT Expansion modules (DIO, AIO, temperature, counter, Relais Multi, communication)	
Supply voltage	+24 VDC (-15% / +20%) SELV max. AC voltage component 5% with reverse voltage protection	
Current consumption	Typ. x,y A, max. x,y A bei +24 VDC	
Operating conditions Transport / storage	Ambient temperature: : Operational: -10 °C bis 40 °C / Transport -20 °C bis +70 °C Relative humidity: max. 85%, non-condensing	
Emitted interference	EN 61000-6-4, Living area	
Immunity to interference	EN 61000-6-2, Industrial area	
Protection class	III	
Insulation strength	SELV (Uw < 30 V) according EN 61131-2	
Protection type	IP20	

B-NIMIS **MC PI-PRO**

INFORMATION **TECHNICAL DATA / DIMENSIONS**



Dimensions B-NIMIS MC-Pi Pro

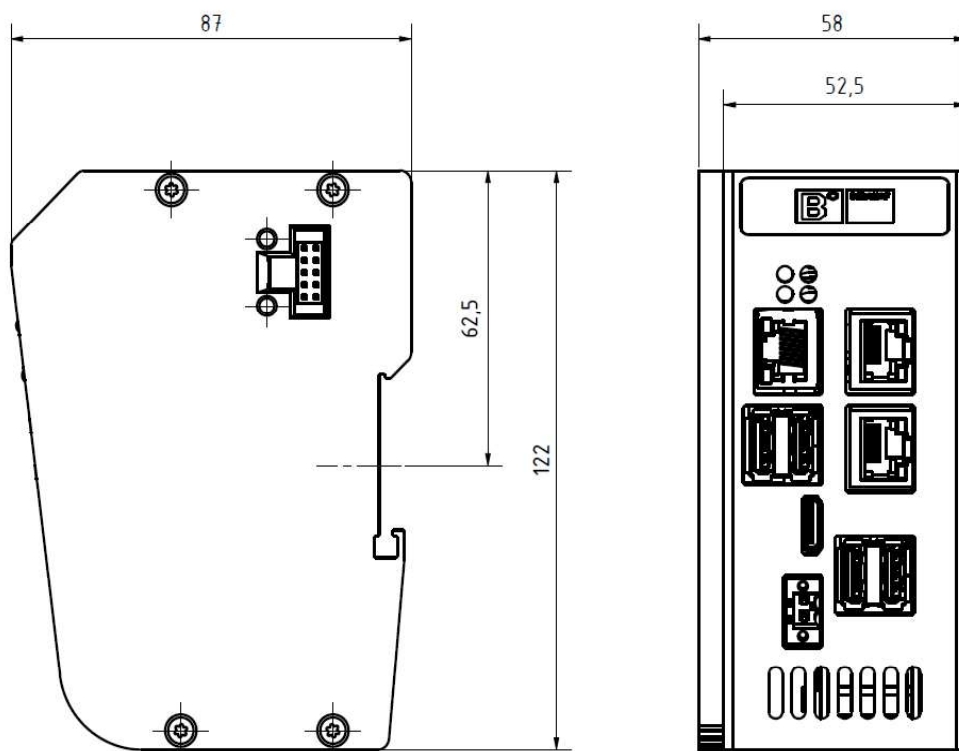
B-NIMIS MC PI-PRIME

INFORMATION TECHNICAL DATEN

B-Nimis MC Pi-Prime	Specification	
Description	MC Pi-Prime S01	MC Pi-Prime S02
Order number	S-01030302-0100	S-01030302-0200
Dimensions WxHxD [mm]	58 x 122 x 87	
Mounting	Rail mounting NS 35/7,5 EN 50022	
Certification	CE (EN 61131-2)	
Development environment	CODESYS V3 (IEC61131-3)	
CPU	BCM2711, 1,5 GHz Quad Core	
RAM /Flash /Retain	1GB RAM / 8GB Flash / 200 KB Retain	2GB RAM / 8GB Flash / 200 KB Retain
Communication interfaces	1x Ethernet 10/100/1000 Base, RJ45	
	1x Ethernet 10/100 Base 2-Port Switch, RJ45	
	1x Ethercat, LVDS	
	- WLAN/Bluetooth (Optional)	
Protocols	Standard: EtherCAT Master Optional: Modbus TCP, SNMP, OPCuA, Ethernet/IP, PROFINET, BACnet, KNX, NTP, FTP, IoT CANOpen Master and J1939 with additional MC-IO Module	
Visualization	Standard: TargetVisu (VNC Server, Display interface) Optional: WebVisu (WebServer, HTML5)	
Additional features	2x Host USB 3.0 / USB plug type A	
	2x Host USB 2.0 / USB plug type A	
	1x uSD (SDXC)	
	1x Digitale display interface	
	1x 2 Pin JST for cooling fan (5V)	
	1x Real Time Clock, 72h Puffer	
	Extended heat sink (optional)	
Extensions	B-Nimis MC-IO EtherCAT Expansion modules (DIO, AIO, temperature, counter, Relais Multi, communication)	
Supply voltage	+24 VDC (-15% / +20%) SELV max. AC voltage component 5% with reverse voltage protection	
Current consumption	Typ. x,y A, max. x,y A bei +24 VDC	
Operating conditions Transport / storage	Ambient temperature: : Operational: -10 °C bis 40 °C / Transport -20 °C bis +70 °C Relative humidity: max. 85%, non-condensing	
Emitted interference	EN 61000-6-4, Living area	
Immunity to interference	EN 61000-6-2, Industrial area	
Protection class	III	
Insulation strength	SELV (Uw < 30 V) according EN 61131-2	
Protection type	IP20	

B-NIMIS **MC PI-PRIME**

INFORMATION **TECHNICAL DATA/DIMENSIONS**



Dimensions B-NIMIS MC-Pi Prime