B-PRIMIS **DC-PI PRIME 7**
INFORMATION **TECHNICAL DATA**

B⁰ **BERGHOF**

B-Primis DC-Pi Prime 7	
Dimensions WxHxD [mm]	207,5 x 146,5 x 69,3 mm
Display diagonals/ Resolution	7" Display / 800 x 480
Touch operation	capacitive, Multitouch
Weight	1 kg
Mounting	Control cabinet / Optional: VESA mount
Certification	CE, UKCA, in preparation: FCC, UL
Development environment	CODESYS V3 (IEC61131-3) / Raspberry PI OS
CPU	Raspberry PI CM4 (1,5 GHz Quad Core)
RAM- / Flash- / Retain	1 GB up to 8 GB RAM / 8 GB up to 32 GB eMMC Flash / 100 kB Retain
Protocols	Standard: EtherCAT Master, CANopen Master Optional: Modbus RTU, Modbus TCP, SNMP, OPC UA, J1939, Ethernet/IP, PROFINET, BACnet, KNX
Visualization	Target Visu , Web Visu, Web Browser

Configurations			
Version with CODESYS	DC-Pi Prime 7 SO1	DC-Pi Prime 7 SO2	DC-Pi Prime 7 SO4
Order number	**S-01010403-0104**	**S-01010403-0204**	**S-01010403-0404**
Version with Raspberry PI OS	DC-Pi Prime Open 7 SO1	DC-Pi Prime Open 7 SO2	DC-Pi Prime Open 7 SO4
Order number	**S-01080203-0104**	**S-01080203-0204**	**S-01080203-0404**
Communication interfaces	2x Ethernet via RJ45 (100/1000), also configurable as EtherCAT		
	2x USB 2.0 Host	2x USB 3.0 Host	2x USB 3.0 Host
Additional features	1x highly accurate RTC +- 7 ppm (buffer time > 30 days)		

Characteristics DC-Pi Prime 7	S01	S02	S04
CAN		x	x
RS232		x	x
RS485		x	x
8x Digital Input			x
8x Digital Output			x
8x Analog Input			x
2x Analog Output			x
MicroSD-Card-Slot		x	x
Beeper		x	x
Order option cooling fan	x	x	x
Order option SSD		x	x
Order option AI-Accelorator		x	x

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Supply parameters	+24 VDC (-20% / +25%) SELV supply voltage with reverse polarity protection. Max. AC voltage component 5%
Operating conditions Transport / storage	Ambient temperature: Operation: -10 °C to +55 °C without fan Operation: -10 °C to +65 °C with fan Transport: -20 °C to +70 °C Relative humidity: max. 85 %, non-condensing
Protection class	Rear IP20, front IP54 (up to IP65)
Emitted interference	IEC 61000-6-3:2022-06, living area
Immunity to interference	IEC 61000-6-2: 2019, industrial area
Vibration	Sinusoidal (EN 60068-2-6) test: Fc;10 … 150 Hz, 1 G (operation mode)
Schock resistance	15 G (approx. 150 m/s²), 10 ms duration, half-sine (EN 60068-2-27) test: Ea