

B-PRIMIS DC-PI PRIME 7

INFORMATION TECHNICAL DATA



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 S01	DC-Pi Prime 7 S02	DC-Pi Prime 7 S04
Order number	S-01010403-0104	S-01010403-0204	S-01010403-0404
Version with Raspberry PI OS	DC-Pi Prime Open 7 S01	DC-Pi Prime Open 7 S02	DC-Pi Prime Open 7 S04
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 real-time clock, rechargeable battery-buffered, accuracy +- 20 ppm		
	1x MicroSD card slot		
	-	Optional: Highly accurate RTC +- 7 ppm	

Characteristics DC-Pi Prime 15	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
Beeper		X	X
Order option cooling fan	X	X	X
Order option SSD		X	X
Order option AI-Accelerator		X	X

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B-Primis DC-Pi Prime 7	
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/s ²), 10 ms duration, half-sine (EN 60068-2-27) test: Ea