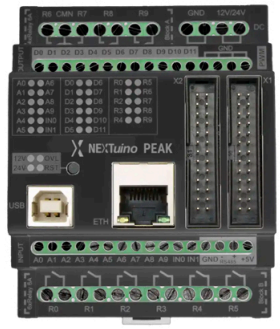
NEXTuino

NEXTuino PEAK CORE

Programmable Logic Controller



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Industrial Programmable Logic Controller

- 12 Digital Inputs + 10 Common A/D
- 12 Digital Outputs · 10 Relay Outputs
- Ethernet · USB-B · RS485 (no pin header)
- DIN-rail 72×90×62 mm · 250 g

PARAMETER	COND.	VALUE / SPECIFICATION
GENERAL		
Standard		EN61010-1 / EN61010-2-201 / EN61131-2
Dimensions (W × H × D)		72x90x62mm / Weight / 250g / Mounting
Top hat rail EN50022, 35mm		
ENVIRONMENTAL CONDITIONS		
Operating ambient temperature		0°C – 55°C
Relative humidity – non-condensing		80 % for temp. up to 31 °C,
decreasing linearly to 50 %		
relative humidity at 55 °C		Pollution Degree / PD2 / Altitude
up to 2000m AMSL		
Vibration (5 f 9 Hz)		1,75 mm amplitude sinus / 3,5 mm amplitude random
Vibration (9 f 150 Hz)		0,5 g acceleration sinus / 1,0 g acceleration random
Transport and Storage		-20°C – +70°C / 10 to 90% no condensation
Altitude 3000m AMSL		Shock response / 15g, 11ms half sinus all 3 axes
I/O		
Supply voltage		12V or 24V
USB (Power for programming only)		USB-B, 2.0 / Ethernet
RJ45, 10/100Mbps		
RS485 (no termination inside)		250kb
Inputs, no galvanic insulation		12
Common analog/digital		10
Fixed digital, ext. Interrupt usable		2
Digital Outputs, no galvanic insulation		12
Relay Outputs, galvanic insulation		10
TERMINAL CAPACITIES		
Relay Output, Power Input		2,5mm² (24-12AWG) / Strip length / 6-7mm
Max. tightening torque		0,5Nm
		1,5mm² (30-16AWG) / Strip length / 5-6mm
		0,2Nm

PARAMETER	COND.	VALUE / SPECIFICATION
PROTECTION (cont.)		
Contact discharge: ±4kV		Air discharge: ±8kV
Supply input over current protection		Internal Fuse 20A / Relay Output / External Fuse required / Digital Output
Overload, short circuit, ESD		Signal Input
Overvoltage, ESD		
ELECTRICAL CHARACTERISTICS		
Supply voltage	12V range	10,2V – 15,0V
	24V range	20,4V – 30,0V
Signal input low level	12V range	0V – 3,6V
	24V range	0V – 7,2V
Signal input high level	12V range	9V – 13,2V
	24V range	18V – 26,4V
Analog signal input	12V range	0 – 13,2V
	24V range	0 – 26,4V
Signal input current	max. current	< 3mA
Signal output low level	12V range	0V – 2,4V
	24V range	0V – 4,8V
Signal output high level	Vin – 10%	Signal output – PWM functionality
	Duty cycle	5% - 95%
Relay output, Contact rating	Resistive	6A 250V AC /
	Load	30V DC
Common Relay terminal	max. current	6A
Galvanic insulation	coil to contact	3000VAC 1min
Relay ON in case of PWM functionality	Duty cycle	> 30%
LED SIGNALIZATION		
Power LEDs coding		Color of power LED
only USB powered		12V green, 24V green
input voltage out of range		12V orange, 24V orange
input voltage 10.2V – 15,0V		12V green, 24V orange
input voltage 20.4V – 30,0V		12V orange, 24V green
input voltage < 7V		both LEDs off
Device in reset state		Reset LED yellow
Device in run state		Reset LED off
Signal input at high (logic 1) level		
Corresponding LED green		

PHYSICAL DIMENSIONS