



## NEXTuino PEAK

Industrial Programmable Logic Controller

- 12 Digital Inputs + 10 Common A/D
- 12 Digital Outputs · 10 Relay Outputs
- Ethernet · USB-B · RS485
- DIN-rail 72x90x62 mm · 250 g

PARAMETER	COND.	VALUE / SPECIFICATION
<b>GENERAL</b>		
Standard		EN61010-1 / EN61010-2-201 / EN61131-2
Dimensions (W x H x D)		72x90x62mm / Weight / 250g / Mounting
Top hat rail EN50022, 35mm		
<b>ENVIRONMENTAL CONDITIONS</b>		
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
<b>I/O</b>		
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
PIN Header, no galvanic insulation		Logic level I/Os / 42, partially parallel to terminal I/Os
Analog 0-5V Inputs		14 / Communication
SPI, 2xUART, I2C, Reset		Internal Power / +3,3V, +5V, ARef, GND
		2,5mm <sup>2</sup> (24-12AWG) / Strip length / 6-7mm
		0,5Nm
		1,5mm <sup>2</sup> (30-16AWG) / Strip length / 5-6mm

PARAMETER	COND.	VALUE / SPECIFICATION
<b>TERMINAL CAPACITIES (cont.)</b>		
Max. tightening torque		0,2Nm
Pin header connector		2x 26 Pin, Dual row, 2.54 pitch
<b>PROTECTION</b>		
ESD HBM Class 0		
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		
Pin header connector		ESD
Current +5V, +3,3V		
total 200mA, resettable fuse		
<b>ELECTRICAL CHARACTERISTICS</b>		
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
Logic "0" level	@ pin header	0V – 1,5V
Logic "1" level	@ pin header	3V – 5,5V
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%

**PHYSICAL DIMENSIONS**

