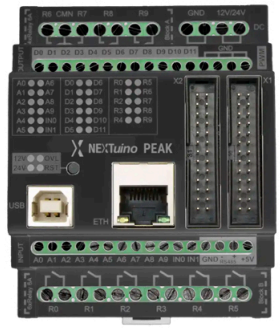
NEXTuino PEAK FLEX CORE

Programmable Logic Controller



NEXTuino PEAK FLEX CORE

Industrial Programmable Logic Controller

- 18 Digital Inputs (12 a/d + 4 d + 2 fix d)
- 8 DO · 10 RO + 2× AI 0-10V + 2× AO 0-10V/0-20mA
- Ethernet · USB-B (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		24 V
USB (Power for programming only)		USB-B, 2.0 / Ethernet
RJ45, 10/100Mbps		Analog inputs / 2x 0-10 V / Analog outputs / 2x 0-10 V or 0-20 mA
Inputs, no galvanic insulation		18
Common analog/digital		12 / Digital / 4
Fixed digital, ext. Interrupt usable		2
Digital Outputs, no galvanic insulation		8
Relay Outputs, galvanic insulation		10
TERMINAL CAPACITIES		
		2,5mm² (24-12AWG) / Strip length / 6-7mm
		0,5Nm
		1,5mm² (30-16AWG) / Strip length / 5-6mm
		0,2Nm

PARAMETER	COND.	VALUE / SPECIFICATION
TERMINAL CAPACITIES (cont.)		
PROTECTION		
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		
ELECTRICAL CHARACTERISTICS		
Supply voltage (Absolute Maximum)	24 V range	20,4 V – 30,0 V
Signal input low level	24 V range	0V–7,2V
Signal input high level	24 V range	18V–26,4V
Analog signal input	24 V range	0V–26,4V
Signal input current	max. current	< 3 mA
Signal output low level	24 V range	0V–4,8V
Signal output high level	Vin – 10 %	Signal output – PWM functionality
	Duty cycle	5% - 95%
Relay output, Contact rating	Resistive	6A250VAC/
	Load	30VDC
Common Relay terminal	max. current	6A
Galvanic insulation	coil to contact	3000 VAC
	1 min	Relay ON in case of PWM functionality
	Duty cycle	>30%
LED SIGNALIZATION		
Power LEDs coding		Color of power LED
input voltage out of range		24V orange
only USB powered		24V orange
input voltage 20.4V – 30,0V		24V green
input voltage < 7V		LEDs off

PHYSICAL DIMENSIONS