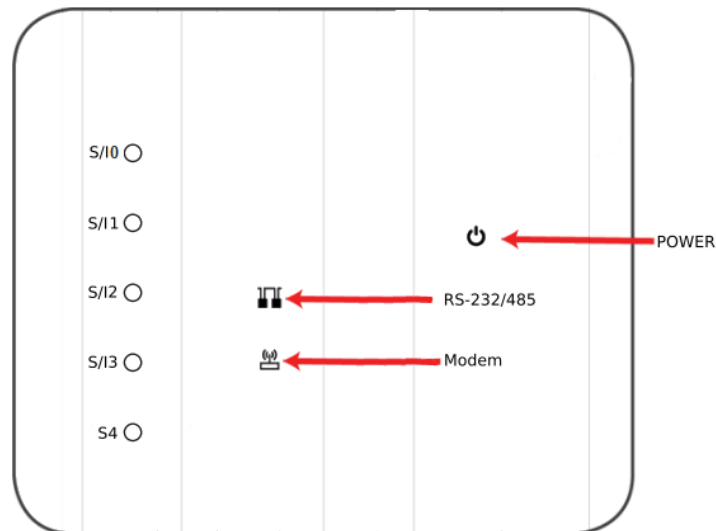




<b>Description</b>	
	<p>dePACK is an industrial IoT controller equipped with a high-performance control unit with an embedded Yocto Linux system and fully integrated Node-RED software. The device includes RS-232/485 serial communications, 10/100 Ethernet network interface, and Wi-Fi and quad-band GPRS wireless communications. Ideal for fog computing applications where you need to monitor, control and send data.</p> <p>As for inputs, it contains Conductives, PNP, Namur, 4..20mA, Potentiometric and Capacitive so that you can connect the necessary sensors for your application.</p>
<b>Featured Features</b>	
	<ul style="list-style-type: none"> <li>- High Performance embedded system with Linux Yocto integrated</li> <li>- High-performance CPU, RAM and Flash memory</li> <li>- Different types of inputs for your sensors</li> <li>- GPRS Quadband, Wi-Fi, Ethernet</li> <li>- Integrated Node-RED</li> </ul>
<b>Electrical data</b>	
Power supply	85 .. 264 VAC / 120 .. 300 VDC
Frequency	47 .. 63 Hz
Maximum consumption	4,6 .. 7,5 VA
<b>Control unit</b>	
CPU	ARM Cortex-A7 700 MHz
RAM	256 MB DDR3
Flash memory	512 MB NAND
Clock	RTC with battery to save time
<b>Environmental conditions</b>	
Temperature	-20 .. +50 °C
Humidity	5% .. 95%
Maximum working altitude	2000 m
<b>Mechanical data</b>	
Surround material	UL94-V0 self-extinguishing plastic
Protection degree	IP20
Dimensions	105 x 88,5 x 48mm
Weight	180 g
Mounting	DIN rail
<b>Characteristics and electrical safety</b>	
Electrical safety	CAT III 300 V according to EN 61010
Electric shock protection	Double insulation class II
Isolation	3 kVAC
<b>Serial interface</b>	
Type	RS-485 three threads (A+/S GND/ B-) (RX/GND/TX)
Transmission speed	9600 / 19200 bps configurable

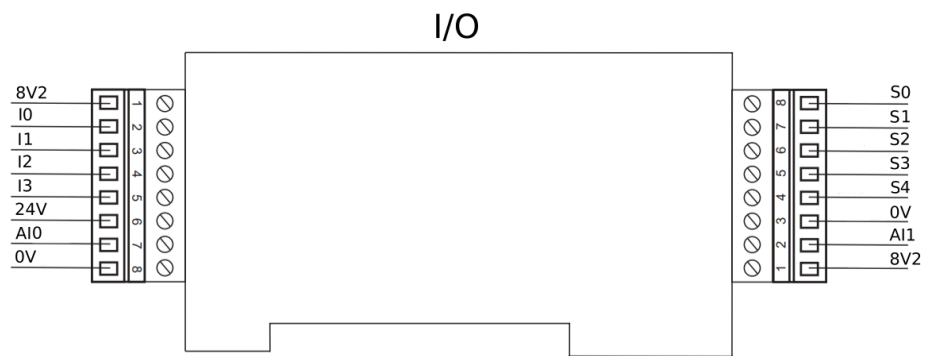
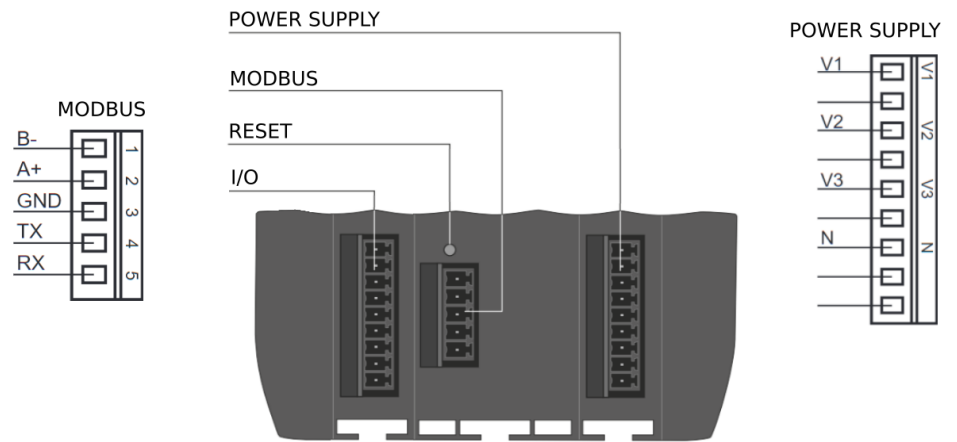
<b>Wireless interface</b>	
Wi-Fi	802.11 b/g/n (2,4 GHz)
<b>Network interface</b>	
Type	Ethernet
Speed	10/100 Mbps
<b>Conductive inputs</b>	
Number and type	5 inputs for conductive probes
Resolution	12 bits (4096 points)
<b>Configurable inputs</b>	
Number and type	4 configurable inputs for Namur, PNP and capacitive sensors
Resolution	12 bits (4096 points)
<b>Analog input (AI0)</b>	
Number and type	1 analog input 0...20 mA / 4...20 mA
Resolution	12 bits (4096 points)
<b>Potentiometric input (AI1)</b>	
Number and type	1 Potentiometric input
Resolution	12 bits (4096 points)
<b>Voltage outputs</b>	
Voltage	2 of 8V/15mA and 1 of 24VCC/150mA
<b>Regulations</b>	
	IEC 60664, VDE 0110, UL 94, EN-61010-1, EN 55011, EN 61000-4-3, EN 61000-4-11, EN 61000-6-4, EN 61000-4-2, EN 61000-6-2, EN 61000-6-1, EN 61000-6-3, EN 61000-4-5 -CE
<b>Installation</b>	
	The equipment is installed on a DIN rail, leaving all the connections inside an electrical panel. The equipment must be connected to a power supply circuit protected with type gI (IEC 269) or type M fuses, between 0.5 and 2A. A magneto-thermal switch or equivalent device must be provided to disconnect the equipment from the power supply network. The power supply and voltage measurement circuit must be connected with a cable with a minimum section of 1mm <sup>2</sup> .

**Leds**

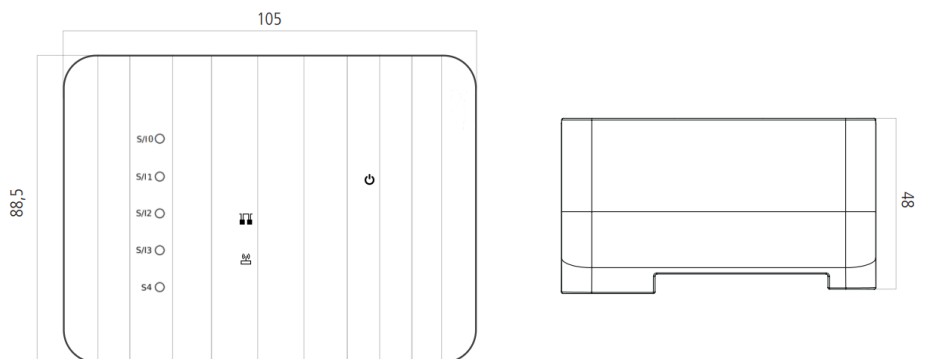


Led	Description
Power	On: Green
RS-232/485	Data Transmission: Red Data reception: Green
Modem	Data Transmission: Red Data reception: Green
S/lx	If Sx = True and lx = False: Green If Sx = False and lx = True: Blue If Sx = True and lx = True: White
S4	If S5 = True: Green

**Electrical wiring**



**Dimensions**



**Software platform**

dePACK is equipped with a software platform designed to develop industrial applications and edge computing in a simple way. The Node-RED is fully integrated, allowing it to have protocols such as Modbus, BACNET, MQTT, OPC-UA and easy communication between platforms such as Amazon WBS, Microsoft Azure, Google Cloud and more.

