

# eManager Pro

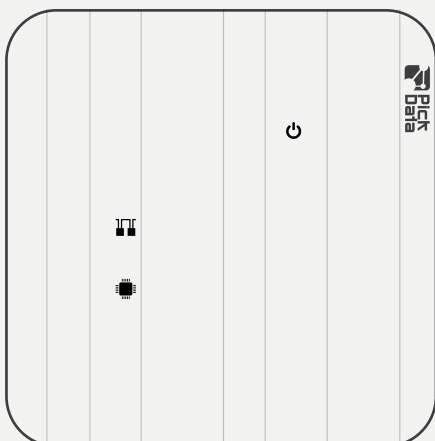
## Main features

- ✓ High performance embedded system with Linux Yocto integrated (other on request)
- ✓ CPU, RAM and Flash memory ready to be the core of any Smart Project
  - ARM CORTEX-A7 800 Mhz
  - 512 MB DDR3 memory
  - 8 GB eMMC flash memory
- ✓ GPRS, Digital & Analogue I/O, Energy metering and many more expansion modules
- ✓ Wi-Fi and BT (optional)
- ✓ Node-RED integrated



## Description

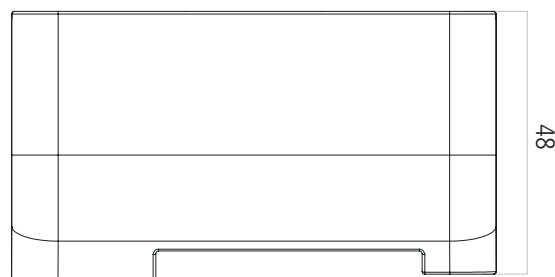
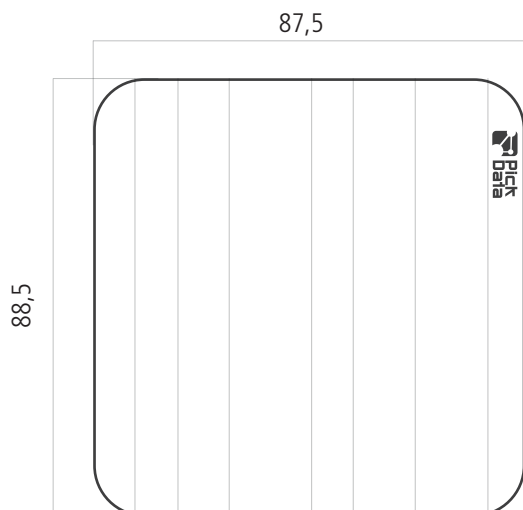
eManager Pro is an OEM industrial controller which is equipped with a high-performance control unit with a Linux Yocto embedded and Node-RED software integrated. The device includes RS-232/485 serial communications, an Ethernet 10/100 port and Wi-Fi communications. eManager Pro has been designed for the most challenging monitoring and control applications, where datalogging and storage is required. In addition, eManager Pro can be expanded with GSM/GPRS communications, Digital & Analogue I/O, Energy metering and many more modules.



## LEDs

LED	Name	Description
	Power	Powered: Green
	RS-232/485	Data transmission: Blue Data reception: Green
	CPU	Activity: Blinking blue

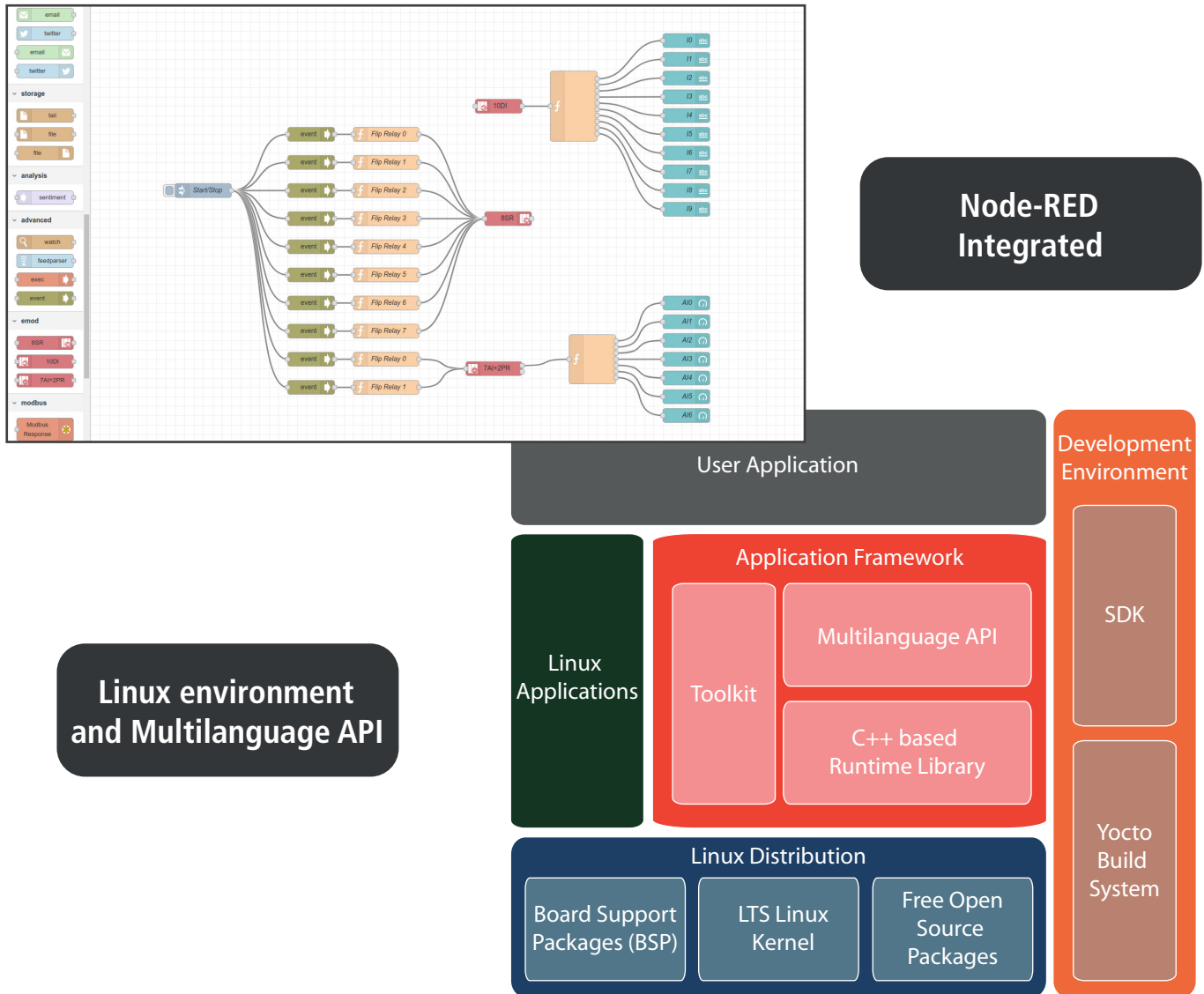
## Dimensions



## Technical features

Category	Parameters	Value
Power circuit	Power supply	85 ... 264 Vac / 120 ... 300 Vdc
	Frecuency	47 ... 63Hz
	Consumption (a.c. / d.c.)	8,8 ... 10,5 VA / 6,4 ... 6,5 W
Control unit	CPU	ARM Cortex-A7 800 Mhz
	RAM Memory	512 MB DDR3
	Flash Memory	8 GB eMMC
	Clock	RTC with supercap to backup clock time
Environmental conditions	Operating temperature	-20 ... +50 °C
	Relative humidity	5 ... 95 %
	Maximum working altitude	2000 m
Mechanical characteristics	Enclosure material	UL94 polycarbonate - Self-extinguishing V0
	Protection grade	IP20 (assembled)
	Dimensions (Width x High x Length)	87,5 x 88,5 x 48 mm (5 DIN rail modules)
	Weight	90 g
	Mounting	DIN rail 46277 (EN 50022)
	Connectors	Pluggable terminals, max. wire section 1,5 mm <sup>2</sup>
Electrical and safety features	Electric shock protection	Double-insulated class II
	Insulation	3 kVac
	Installation category	CAT III 300 V
Wireless interface	Wi-Fi	802.11 b/g/n (2.4 GHz)
	BT (optional)	4.2
Serial interface	Type	RS-232 (full-duplex) / RS-485 (half-duplex). Galvanic isolation
	Baud rate	9600...115200 bps
Network interface	Type	Ethernet
	Working speed	10/100 Mbps
Standards	Standards	UNE EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4

## Software platform



## Description

eManager Pro is equipped with a software platform designed for easily developing industrial and edge computing applications. With eManager Pro you can smoothly develop your application with our multilanguage API which include the most popular programming language for IoT applications (C, C++, Python, Go, Java...). In addition, eManager Pro fully integrates Node-RED which includes protocols such as Modbus, BACNET, MQTT, OPC-UA, together with easy communication with platforms like Amazon WBS, Microsoft Azure, Google Cloud and more.

## Main features



**IoT open  
software tools**



**Multilanguage  
API**



**Public protocols  
libraries**