# eManager Pro GPRS

### **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, Wi-Fi and BT (optional)** 



Digital & Analogue I/O, Energy metering and many more expansion modules

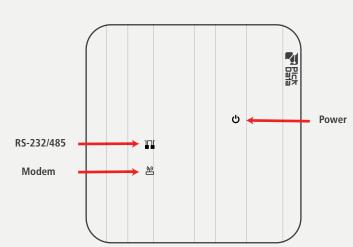


**Node-RED** integrated



## **Description**

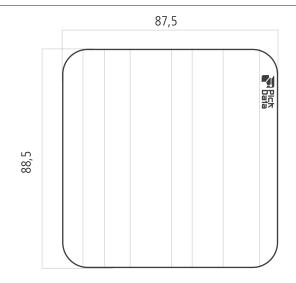
eManager Pro GPRS is an OEM industrial controller which is equipped with a high-performance control unit with a Linux Yocto embedded and Node-RED software integrated. The device includes RS-232/485 serial communications, an Ethernet 10/100 port, a Wi-Fi interface and GPRS communications. eManager Pro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

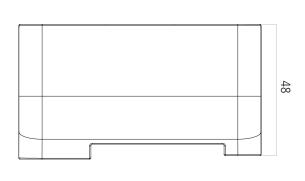


#### **LEDs**

LED	Name	Description	
ტ	Power	Powered: Green	
III	RS-232/485	Data transmission: Blue Data reception: Green	
<u>@</u>	Modem	Connected with good signal: Static green Connected with weak signal: Blinking green Searching for connection / Without connection : Blinking red Modem service stopped: Blinking blue	

# **Dimensions**

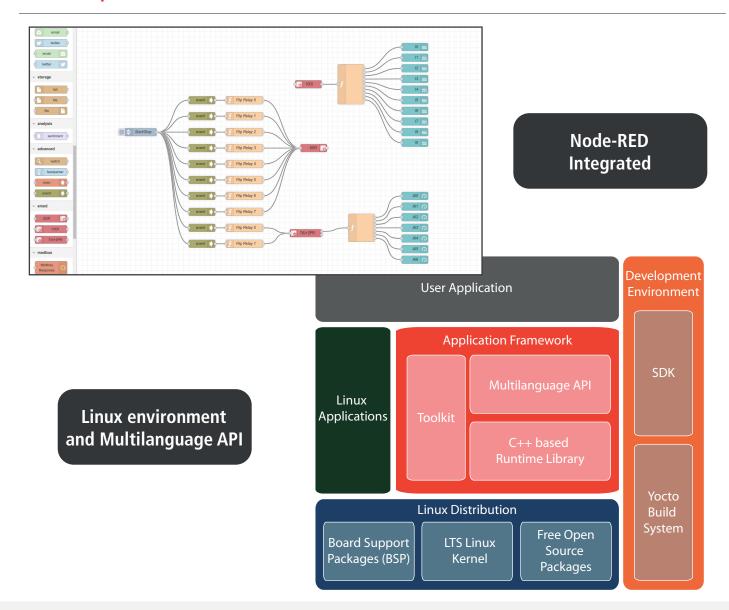




# **Technical features**

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	Operating temperature	-20 +50 °C
conditions	Relative humidity	5 95 %
	Maximum working altitude	2000 m
Mechanical	Enclosure material	UL94 polycarbonate - Self-extinguishing V0
characteristics	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	Electric shock protection	Double-insulated class II
safety features	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
Radio interface	Туре	Quad-band GSM/GPRS
	Frequency bands	850 / 900 / 1800 / 1900 MHz
	Antenna	External
	Connector	SMA
Serial interface	Туре	RS-232 (full-duplex) / RS-485 (half-duplex). Galvanic isolation
	Baud rate	9600115200 bps
Network interface	Туре	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 GPRS 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 GPRS 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





Multilanguage API

