

eManager GPRS (DC)

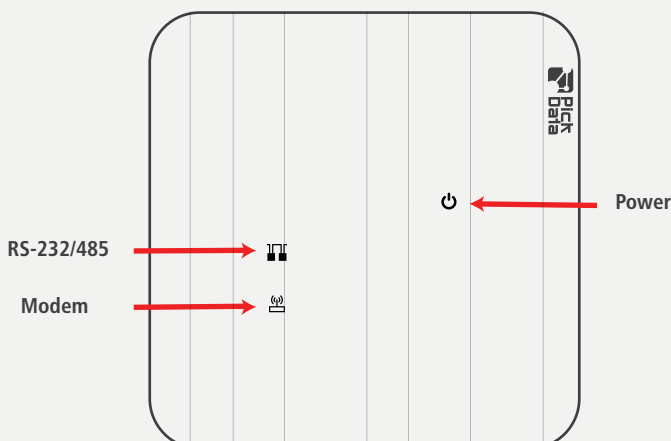
Main features

- ✓ 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 700 Mhz
 - 256 MB DDR3 memory
 - 512 MB NAND flash memory
- ✓ GPRS, Wi-Fi and BT (optional)
- ✓ Digital & Analogue I/O, Energy metering and many more expansion modules
- ✓ Node-RED integrated



Description

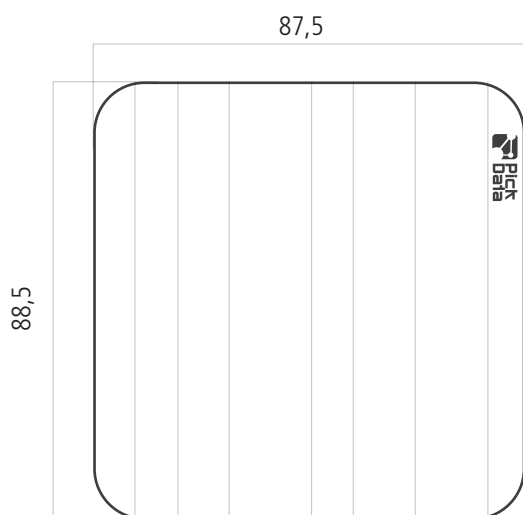
eManager GPRS (DC) is an OEM industrial controller which is equipped with a high-performance control unit with a Linux Yocto embedded and Node-RED software integrated. The device includes RS-232/485 serial communications, an Ethernet 10/100 port, a Wi-Fi interface and GPRS communications. eManager GPRS (DC) is ideal for fog computing applications where monitoring, control and data sending is required. In addition, eManager can be expanded with 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
	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

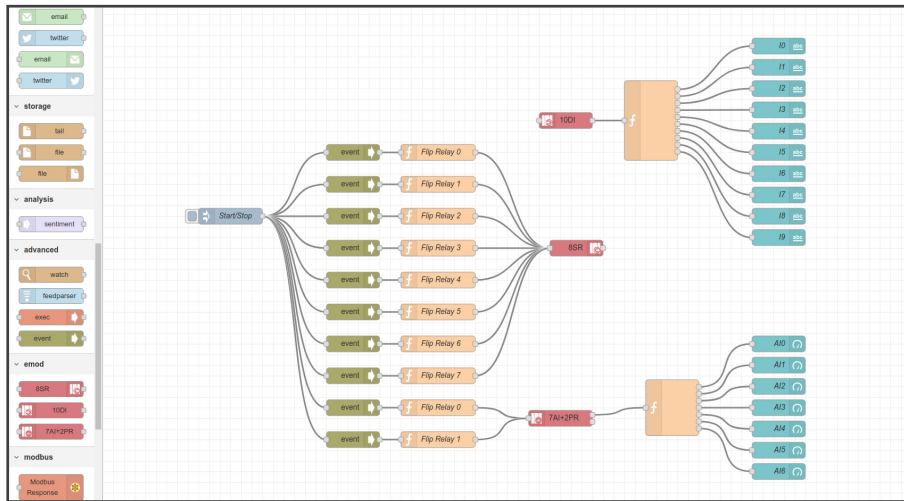
Dimensions



Technical features

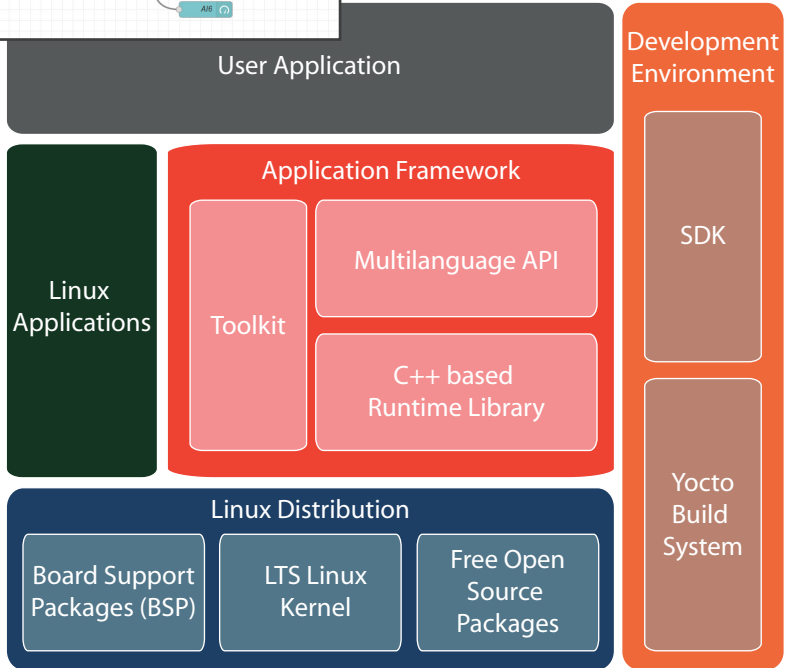
Category	Parameters	Value
Power circuit	Power supply	9 ... 36 Vdc
	Consumption	0,5 ... 10 W
Control unit	CPU	ARM Cortex-A7 700 Mhz
	RAM Memory	256 MB DDR3
	Flash Memory	512 MB NAND
	Clock	RTC with supercap to backup clock time
Environmental conditions	Operating temperature	-20 ... +50 °C
	Relative humidity	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 ²
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
Radio interface	Type	Quad-band GSM/GPRS
	Frequency bands	850 / 900 / 1800 / 1900 MHz
	Antenna	External
	Connector	SMA
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



**Node-RED
Integrated**

**Linux environment
and Multilanguage API**



Description

eManager GPRS (DC) is equipped with a software platform designed for easily developing industrial and edge computing applications. With eManager 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 GPRS (DC) 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**