

eCore GPRS

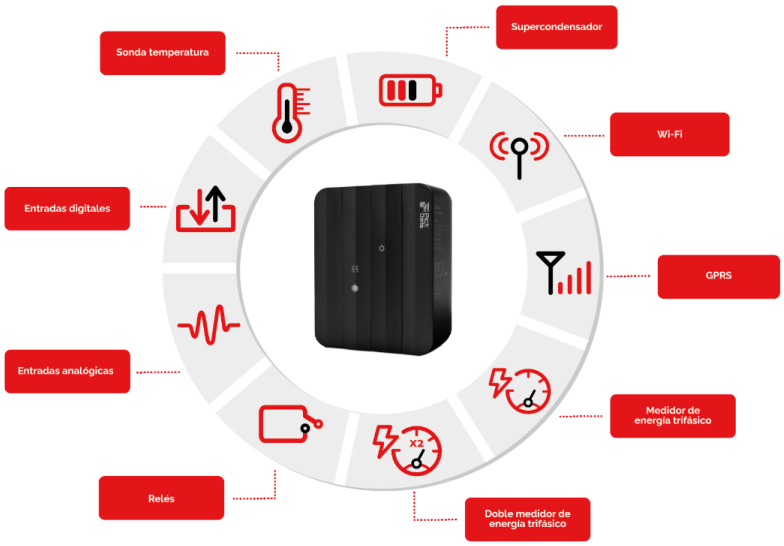
eCore GPRS, ESP32 controller

Code: D10010.

> Memory: 8 MB | 16 MB
> Módules: 5
> Communications: RS232/485 | Ethernet | Wi-Fi | GPRS
> Power supply: 85 ... 264 V~
> CPU: ESP32 Dual-core 32-bit 240 MHz

Description

Range of controllers designed for applications with real-time needs and strict cost requirements. ESP32 Technology, FreeRTOS Operating System, Modbus RTU/TCP and MQTT built in.





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Specifications

AC power supply

Consumption	8,8 ... 10,5 VA
Frequency	47 ... 63 Hz
Nominal voltage	85 ... 264 V~

DC power supply

Consumption	6,4 ... 6,5 W
Nominal voltage	120 ... 300 Vdc

Electrical characteristics

Isolation level	3 kVac

Mechanical characteristics

Size (mm) width x height x depth	88 x 89 x 48 (mm)
Envelope	Polycarbonate UL94 - Self-extinguishing V1
Fastening	DIN rail 46277 (EN 50022)
Weight (kg)	0,216

Environmental characteristics

Protection class	IP 20
Relative humidity (without condensation)	5...95 %
Working temperature	-20...+50 °C

Communication Network

Technology / Interface	Ethernet 10/100 Mbps

Control Unit

Clock	RTC
CPU	ESP32 Dual-core 32-bit 240 MHz
PSRAM Memory	8 MB
SPI Flash Memory	16 MB

Standards

Electrical safety, Maximum height (m)	2000
Electrical safety, Installation category	CAT III 300 V
Electrical safety, Contamination level/class	Double-insulated electric shock protection class II (IEC 61010)
Standards	UNE EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4

Electrical safety

Insulation	3 kVac

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Radio communication -Antenna

	External

Radio communication

Band	850 / 900 / 1800 / 1900 MHz
Technology / Type	GPRS

Serial communication

Technology / Type	RS-232 (full-duplex) / RS-485 (half-duplex)Galvanic isolation

Wireless communication

Band	802.11 b/g/n (2.4 GHz.)
Technology / Type	Wi-Fi

eCore Essential
ESP32 controllers

CODE	TYPE	CPU	Memory	Communications	Power supply
eCore Essential					
D10000.	eCore	ESP32 Dual-core 32-bit 240 MHz	8 MB | 16 MB	RS232/485 | Ethernet | Wi-Fi	85 ... 264 V~
D10010.	eCore GPRS	ESP32 Dual-core 32-bit 240 MHz	8 MB | 16 MB	RS232/485 | Ethernet | Wi-Fi | GPRS	85 ... 264 V~

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