



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)	595 %
Working temperature	-20+50 °C
Communication Network	
Technology / Type	Ethernet 10/100 Mbps
Control Unit	
Clock	RTC
СРИ	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~		

