



eCore ActIO 22172 Energy

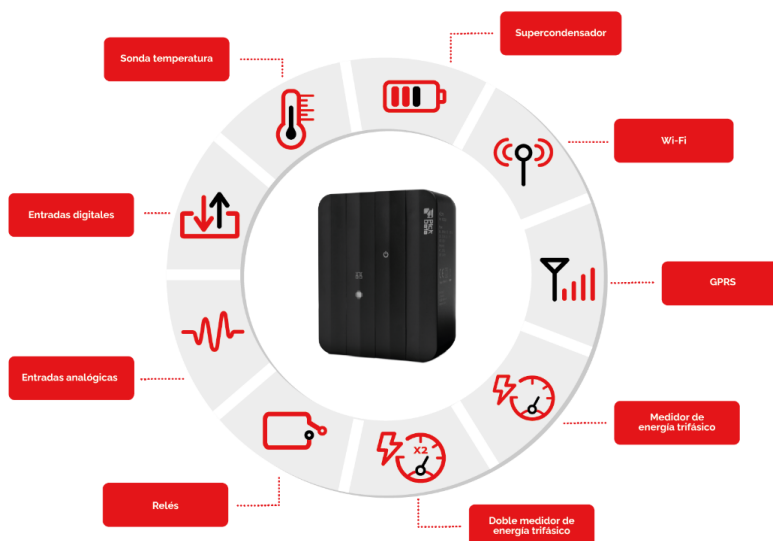
eCore ActIO 22172 Energy, ESP32 controller

Code: D103000026700

- > Memory: 8 MB | 16 MB
- > Analogue Inputs: 7
- > Módulos: 7
- > Communications: RS232/485 | Ethernet | Wi-Fi
- > N° relays: 3 (6 A)
- > Digital inputs: 2
- > 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 | 140 x 89 x 48 (mm) |
| Envelope | Polycarbonate UL94 - Self-extinguishing V3 |
| Fastening | DIN rail 46277 (EN 50022) |
| Weight (kg) | 0,267 |

Environmental characteristics

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

Communication Network

| | |
|-------------------|----------------------|
| Technology / Type | 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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Analogue inputs

| | |
|---------------------|----------------------------------|
| Quantity | 7 |
| Nominal range | 0...10 V / 0...20 mA o 4...20 mA |
| Nominal input range | 0...10 V / 0...20 mA o 4...20 mA |

Digital inputs

| | |
|----------|------------|
| Quantity | 2 |
| Type | 0...24 Vcc |

Digital relay outputs

| | |
|------------------------------|---------|
| Quantity | 3 |
| Type | NA |
| Maximum current | 6 A |
| Maximum open contact voltage | 250 Vac |

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 ActIO Energy

ESP32 controller

| CODE | TYPE | CPU | Memory | Analogue Inputs | Digital inputs | N° relays | Communications | Power supply |
|---------------------------|--------------------------|--------------------------------|--------------|-----------------|----------------|-----------|------------------------------|---------------|
| eCore ActIO Energy | | | | | | | | |
| D103000026700 | eCore ActIO 22172 Energy | ESP32 Dual-core 32-bit 240 MHz | 8 MB 16 MB | 7 | 2 | 3 (6 A) | RS232/485 Ethernet Wi-Fi | 85 ... 264 V~ |