



## eManager 2

eManager 2, ARM controller

Code: D20400.

- > Memory: 1 GB | 8 GB eMMC
- > Módulos: 3
- > Communications: RS232/485 | CAN BUS | Ethernet | Wi-Fi
- > Power supply: 85 ... 264 V~
- > CPU: ARM Cortex A53 Basic

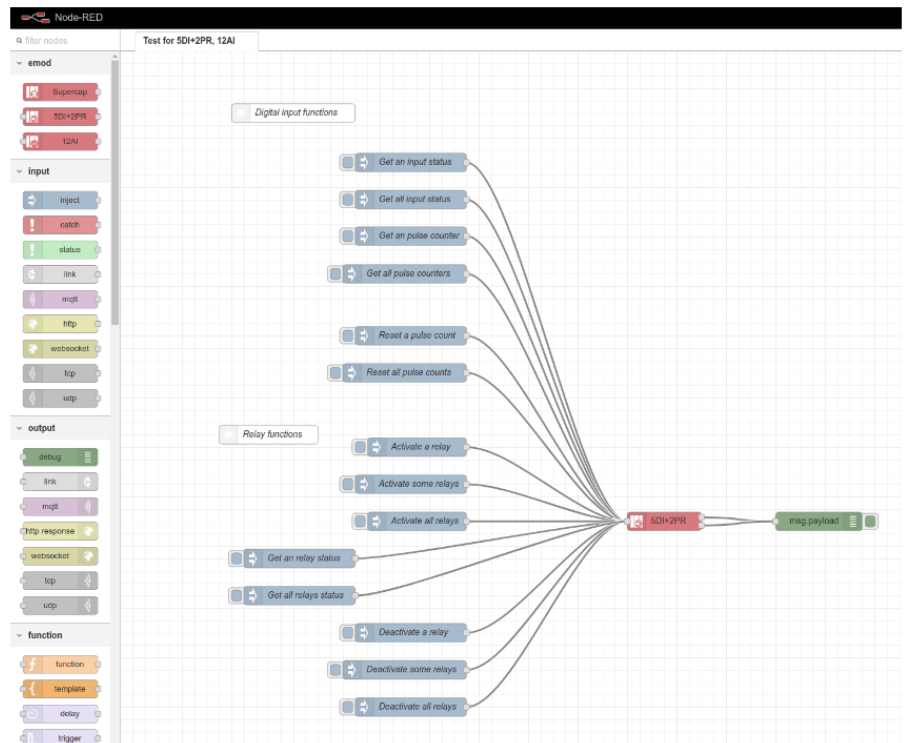
### Description

**eManager 2** is a high-performance industrial OEM device designed with an embedded system based on Linux Yocto. Its flexible architecture makes it an ideal solution for automation, industrial IoT, and remote control applications.

The device integrates RS-232 and RS-485 serial communications, CAN FD bus, an Ethernet network interface, and Wi-Fi connectivity. It incorporates a TPM 2.0 security chip, which reinforces data protection and system integrity.

**eManager 2** also includes a software suite that facilitates both device configuration and application development. This suite incorporates tools such as Node-RED, ChirpStack, and the TICK and MING stacks.

The device has access to an online package repository, which allows for the easy installation of additional components such as databases, VPN servers, and Docker containers, among others.





## eManager 2

2nd generation programmable IoT controllers

Code: D20400.

### Specifications

#### AC power supply

|                 |               |
|-----------------|---------------|
| Frequency       | 47 ... 63 Hz  |
| Nominal voltage | 85 ... 264 V~ |

#### DC power supply

|                 |                 |
|-----------------|-----------------|
| Nominal voltage | 120 ... 300 Vdc |
|-----------------|-----------------|

#### Mechanical characteristics

|                                  |  |
|----------------------------------|--|
| Size (mm) width x height x depth | 66 x 99.6 x 78.4 (mm)                      |
| Envelope                         | Polycarbonate UL94 - Self-extinguishing V2 |
| Fastening                        | DIN rail                                   |
| Weight (kg)                      | 0,228                                      |

#### Environmental characteristics

|  |          |
|--|----------|
| Protection class                         | IP 30    |
| Relative humidity (without condensation) | 5...95 % |

#### Voltage measurement circuit

|                       |               |
|-----------------------|---------------|
| Installation category | CAT III 300 V |
|-----------------------|---------------|

#### Communication Network

|                        |                           |
|------------------------|---------------------------|
| Technology / Interface | Ethernet 10/100/1000 Mbps |
|------------------------|---------------------------|

#### Control Unit

|                  |                        |
|------------------|------------------------|
| Clock            | RTC                    |
| CPU              | ARM Cortex A53 1.6 GHz |
| PSRAM Memory     | 1 GB                   |
| SPI Flash Memory | 8 GB eMMC              |

#### Standards

|  |               |
|--|---------------|
| Electrical safety, Maximum height (m)    | 2000          |
| Electrical safety, Installation category | CAT III 300 V |

#### Electrical safety

|            |        |
|------------|--------|
| Insulation | 3 kVac |
|------------|--------|

#### Serial communication

|                   |   |
|-------------------|---|
| Technology / Type | RS-232 (full-duplex) / RS-485 (half-duplex) / CAN-FD (semi-duplex) Galvanic isolation |
|-------------------|---|



## eManager 2

2nd generation programmable IoT controllers

Code: D20400.

### Wireless communication

|                   |                                  |
|-------------------|----------------------------------|
| Band              | 802.11 a/b/g/n/ac (2.4 - 5 GHz.) |
| Technology / Type | Wi-Fi                            |

### eManager 2 Essential

2nd generation programmable IoT controllers

| CODE                        | TYPE                         | Power supply  | CPU                  | Communications  | Memory            | Digital inputs | N° relays | Analogue Inputs | Módulos |
|-----------------------------|------------------------------|---------------|----------------------|---|-------------------|----------------|-----------|-----------------|---------|
| <b>eManager 2 Essential</b> |                              |               |                      |   |                   |                |           |                 |         |
| D20400.                     | eManager 2                   | 85 ... 264 V~ | ARM Cortex A53 Basic | RS232/485   CAN BUS   Ethernet   Wi-Fi                  | 1 GB   8 GB eMMC  | -              | -         | -               | 3       |
| D20401.                     | eManager 2 (DC)              | 9...36 Vdc    | ARM Cortex A53 Basic | RS232/485   CAN BUS   Ethernet   Wi-Fi                  | 1 GB   8 GB eMMC  | -              | -         | -               | 3       |
| D20440.                     | eManager 2 NB-IoT & LTE-M    | 85 ... 264 V~ | ARM Cortex A53 Basic | RS232/485   CAN BUS   Ethernet   Wi-Fi   NB-IoT & LTE-M | 1 GB   8 GB eMMC  | -              | -         | -               | 4       |
| D20450.                     | eManager 2 4G                | 85 ... 264 V~ | ARM Cortex A53 Basic | RS232/485   CAN BUS   Ethernet   Wi-Fi   4G             | 1 GB   8 GB eMMC  | -              | -         | -               | 4       |
| D30400.                     | eManager 2 Pro               | 85 ... 264 V~ | ARM Cortex A53 Pro   | RS232/485   CAN BUS   Ethernet   Wi-Fi                  | 4 GB   16 GB eMMC | -              | -         | -               | 3       |
| D3040000G0000               | eManager 2 Pro Dual Ethernet | 85 ... 264 V~ | ARM Cortex A53 Pro   | RS232/485   CAN BUS   Ethernet x2   Wi-Fi               | 4 GB   16 GB eMMC | -              | -         | -               | 4       |
| D30450.                     | eManager 2 Pro 4G            | 85 ... 264 V~ | ARM Cortex A53 Pro   | RS232/485   CAN BUS   Ethernet   Wi-Fi   4G             | 4 GB   16 GB eMMC | -              | -         | -               | 4       |
| D3045000H0000               | eManager 2 Pro 4G LoRaWAN BS | 85 ... 264 V~ | ARM Cortex A53 Pro   | RS232/485   CAN BUS   Ethernet   Wi-Fi   4G   LoRaWAN   | 4 GB   16 GB eMMC | -              | -         | -               | 5       |



## eManager 2

---

2nd generation programmable IoT controllers

Code: D20400.

## Dimensions

---

