

# eManager 2 NB-IoT & LTE-M

eManager 2 NB-IoT & LTE-M, ARM controller

Code: D20440.

- > Memory: 1 GB | 8 GB eMMC
- > Módulos: 4
- > Communications: RS232/485 | CAN BUS | Ethernet | Wi-Fi | NB-IoT & LTE-M
- > Power supply: 85 ... 264 V~
- > CPU: ARM Cortex A53 Basic

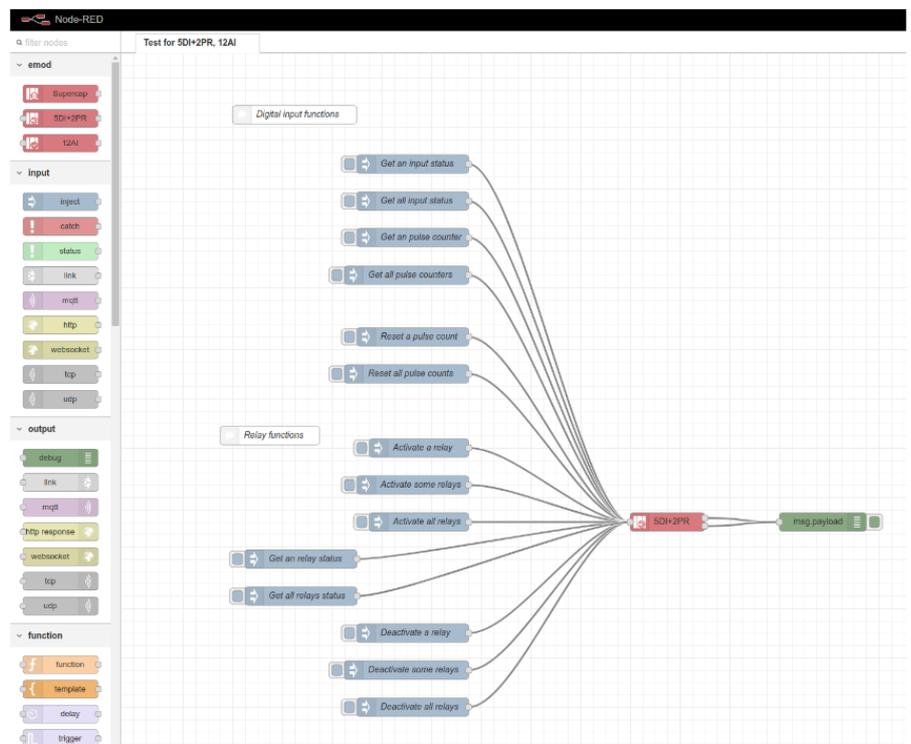
## Description

**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 NB-IoT & LTE-M

2nd generation programmable IoT controllers

Code: D20440.

### 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	88 x 108.7 x 78.4 (mm)
Envelope	Polycarbonate UL94 - Self-extinguishing V4
Fastening	DIN rail

#### 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
------------------------	---------------------------

#### Standards

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

#### Electrical safety

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

#### Radio communication

Band	NB-IoT B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85, LTE - M B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85, EGSM 900, GSM 850, DCS 1800 & PCS 1900
Technology / Type	NB-IoT & LTE-M

#### Serial communication

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



## eManager 2 NB-IoT & LTE-M

2nd generation programmable IoT controllers

Code: D20440.

### Wireless communication

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

### eManager 2 Essential A53

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 NB-IoT & LTE-M

---

2nd generation programmable IoT controllers

Code: D20440.

## Dimensions

---

