mbEDGE

Technical Datasheet
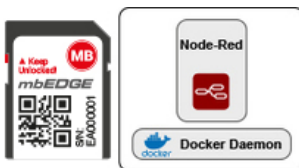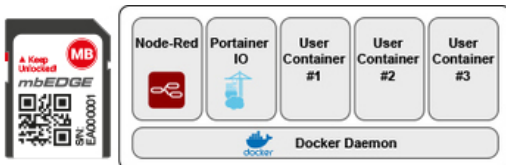
EDG100; EDG200

mbEDGE is a software kit that extends the router **mbNET** [1] and **mbNET.rokey** to an edge gateway.
The basis for this is the container platform Docker, in which several user applications are executed separately. With Node-RED there is a graphic development tool with whose function blocks the user can create individual IOT applications.

mbEDGE.start

mbEDGE.advanced

C E

- **Node-RED for easy programming**

  ° Web-based programming user interface with Drag&Drop

  ° Industrial protocols: MQTT, OPC-UA, Modbus, S7 and many more

  ° Cloud-connectivity: Azure, IBM, Amazon and more

  ° TCP/IP, HTTPs, E-Mail, Twitter and more

  ° User-defined function blocks

  ° **mbCONNECT24** node to connect with dashboards & widgets

  ° additional nodes can be installed [2]

- **Pre-installed Docker Engine**
- **Pre-installed Container** [2]

  ° Up to three additional Docker containers can be installed for running user applications

  ° Portainer.io to manage Docker containers

- Data stored on the SD card are encrypted (aes-xts-plain64:sha256):

  ° Encryption method: AES

  ° Encryption Mode: XTS-plain64

  ° Hash function: SHA256

- 8 GB industrial grade SD card (MLC NAND, UHS-I interface)

  ° Temperature (usage): -40 to 85°C

  ° Dimensions: 24mm x 32mm x 2,1mm

  ° 90 MB/s read and 20 MB/s write speed

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[1] from hardware version HW03 and firmware version 6.0.5 and higher
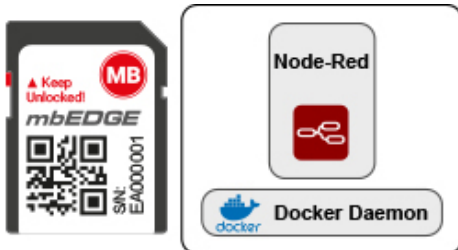[2] only available for mbEDGE.advanced EDG 200

1   mbEDGE variants

mbEDGE is offered in two variants on SD card

- mbEDGE.start (EDG 100)
- mbEDGE.advanced (EDG 200)

mbEDGE.start
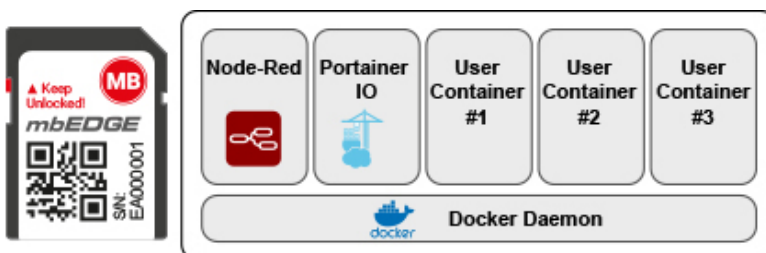
EDG100

- 8 GB SD card
- Docker Daemon
- Node-Red with mbCONNECT24-Node [3]

NOTICE
There are no additional Docker containers available and no additional nodes can be installed.

mbEDGE.advanced

EDG200

- 8 GB SD card
- Docker Daemon
- 3 additional docker containers can be installed
- Portainer IO
- Node-Red with mbCONNECT24-Node
  additional nodes can be installed

[3] makes your Node-Red data (widgets and dashboards) available in mbCONNECT24

MB CONNECT LINE

MB connect line GmbH offers universal solutions for
worldwide remote maintenance of machines and equipment.
The specialists at MB connect line can draw on years of
experience and extensive know-how.

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