

# WBox Edge E413-MBUS-LTE

Edge IoT Gateway with LTE & M-Bus

## Overview

The WBox Edge E413-MBUS-LTE is a high-end IoT edge gateway combining a built-in LTE Cat 1 modem with an integrated wired M-Bus master for the direct connection of up to 60 meters (energy, water, gas, heat) — no external converter required. A quad-core Cortex-A72 CPU (up to 1.5 GHz) with 1 GB of RAM and 16 GB of eMMC drives edge workloads, while a 1-Gbit and a 100-Mbit Ethernet port plus two RS-485 ports connect the field — all in an aluminium IP20 DIN-rail chassis running the Weble software suite. Ideal for remote meter reading and remote sites without fixed connectivity.



## Features

- Integrated M-Bus master — up to 60 meters, no external converter
- Built-in LTE Cat 1 modem with SIM slot for remote sites without fixed connectivity
- Quad-core Cortex-A72 CPU (up to 1.5 GHz), 1 GB RAM, 16 GB eMMC
- 2 × Ethernet ports (1 × 1 Gbit + 1 × 100 Mbit)
- 2 × RS-485 ports for Modbus / BACnet field communication
- 3 × USB + 1 × USB-OTG (Ethernet emulation)
- Aluminium IP20 chassis, DIN-rail mount
- Armbian OS, full Weble software suite (logic, routing, remote access)

## Specifications

Hardware System	
CPU	4 × Arm Cortex-A72, up to 1.5 GHz
Memory	1 GB RAM
Storage	16 GB eMMC
Operating system	Linux (Armbian)
Interfaces	
M-Bus	1 × master, up to 60 meters (slaves)
Ethernet	1 × RJ45 1 Gbit + 1 × RJ45 100 Mbit
Cellular	LTE Cat 1 modem, Nano-SIM slot
RS-485	2 × ports
USB	3 × USB + 1 × USB-OTG (Ethernet emulation)

**Power Supply**

Input	12-24 V DC
Power consumption	Available on request

**Physical & Environmental**

Enclosure	Aluminium, IP20
Mounting	35 mm DIN rail
Dimensions / Weight	Available on request
Operating temperature	Available on request
LTE bands	Available on request

**Software & Protocols**

Field protocols	Modbus RTU/TCP, BACnet MS/TP & BACnet/IP, M-Bus (built-in), MQTT, HTTP and 20+ licence-activated Weble drivers
Edge software	Weble suite: logic module, supervision, secure remote-access VPN
Management	Built-in web server, REST API