

Collect M-Bus Data Concentrator

MODEL: TS-MBUS-AMI

Sensor Node & Gateway is Approved by



With Truesync IoT Solutions, you can



About truesync.io

Truesync IoT Systems is an IoT hardware and software company based in United Kingdom.

Our vision is to become a distinguished IoT solution provider in the IoT space which covers Smart City, Utilities, Energy, Industries & Manufacturing, and Farming sectors.

We conceptualize, design, develop, test, integrate, deliver, and support solutions for the client's needs and challenges.

By utilising our IoT Sensor Nodes, Gateways and Cloud solutions, we are helping in the front line of turning cities into Smart Cities, traditional grids into Smart Grids & Smart Energy entities with benchmarking references.

Reach us for your use cases and challenges via www.truesync.io.

M-Bus

M-Bus (Meter-Bus) is a European standard (EN 13757-2 physical and link layer, EN 13757-3 application layer) for the remote reading of water meter, gas or electricity meters. M-Bus is also usable for other types of consumption meters. The M-Bus interface is made for communication on two wires, making it cost-effective. A radio variant of M-Bus (Wireless M-Bus) is also specified in EN 13757-4.

Wireless M-Bus was originally defined for Smart Metering (i.e., Meter-Bus), but it's also the ideal solution for Industrial Wireless Sensor Networks (IWSNs). That's because Wireless M-Bus has been developed and proven over many years for Smart Metering applications — applications that share many of the fundamental challenges faced by IWSNs.

Collect M-Bus Data Concentrator

Introducing the Collect M-Bus Data concentrator device, a revolutionary solution designed to meet the demands of modern metering applications. This cutting-edge device combines wired and wireless M-Bus support, providing unparalleled versatility and performance.

Built on a robust Linux Single Board Computer (SBC) architecture, the Collect MBUS device ensures both reliability and flexibility. It seamlessly supports wired M-BUS and wireless M-Bus, offering effortless connectivity options. Additionally, the device is equipped with RS485 Modbus Protocol support and features 4G/LTE communication capability, Ethernet, and Wi-Fi support for unparalleled connectivity options. With a capacity to manage from 50, 100 to 250 wired M-Bus slaves, the Collect M-Bus device also complies with the EN 13757-4:2012 standard for wireless M-Bus connectivity. This enables seamless communication with various metering devices, including electricity, gas, water, and heat meters.

The Collect MBUS device represents a significant leap forward in metering technology, offering a unified solution for efficient data aggregation, management, and analysis. With its advanced features, it empowers businesses across industries with accurate insights and streamlined operations, setting new standards in metering efficiency and reliability.



Product: TS-MBUS-AMI

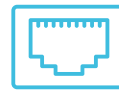
Features



Wireless Technology



DC & AC



1x Ethernet Port



Wired M-Bus & 1 x RS-485 Port

M-Bus wireless + **M-Bus** + **Modbus** + **DLMS**® + **IEC 62056-21**

Simultaneous Support of wM-Bus , Wired M-Bus, Modbus & DLMS/COSEM & IEC Protocols Interfaces and Protocols

Product Information

APPLICATIONS

Advanced Metering Infrastructure (AMI), Building Automation, Energy Management Systems

GATEWAY KEY FEATURES

Dimension	150 mm x 107 mm x 35 mm
Weight	250g
LTE Bands	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41
LTE Speed	Cat 1 4G
Wi-Fi Protocol	IEEE 802.11b/g/n
Wi-Fi Base Band	2.4GHz
Wireless M-Bus Frequency Band	868/169 MHz
Power Supply	12V / AC Adaptor
Wired M-Bus Slaves	50 or 100 or 256
Supported VPN Protocols	OpenVPN, IPSec, Stunnel, SSTP, etc...
Monitoring & Management	Firmware OTA, WEB UI, Firmware Update, Configuration, SSH
APN	Private or Public APN
Data Concentrator Function	Yes, Flexible CSV Upload using SFTP Protocol, Local Memory
Protocol Support	Wired M-Bus, Wireless M-Bus, RS485/Modbus/ DLMS/COSEM, OPC-UA, Ethernet/IP.
Enclosure Protection	IP 20. With additional enclosure IP65
Hardware Type	Single Board Computer – Programmable

KEY FEATURES

- Modular and flexible design with SBC Architecture
- Support for Wired and Wireless M-Bus, RS485 Modbus simultaneously
- It can power and handle up to 256 Wired M-BUS slaves
- 4G/LTE, Ethernet, and Wi-Fi support
- Flexibility to choose between wired, wireless, or combined
- Easy Integration with other systems and IoT applications
- Versatile networking option for different deployments
- Suitable for data collection and processing in smart metering systems

PACKING LIST

Collect M-Bus Data Concentrator	1
wM-Bus Antenna (If selected Wireless M-Bus option)	1
4G Cellular Antenna	1
Power Adapter + Cable	1 set
Catalogue	1

ORDER INFORMATION

Device	Part No.
Collect M-Bus with both Wired & Wireless M-Bus.	TS-MBUS-AMI-wm868-wr- slyyy (yyy – no. of slaves)
	TS-MBUS-AMI-wm169-wr- slyyy (yyy – no. of slaves)
Collect M-Bus with Wired M-Bus Only	TS-MBUS-AMI-wr-slyyy (yyy – no. of slaves)
Collect M-Bus with Wireless M-Bus Only	TS-MBUS-AMI-wl868
Collect M-Bus with Wireless M-Bus Only	TS-MBUS-AMI-wl169



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