

# Wireless M-Bus USB Adapter

## Key Features

- Wireless M-Bus interface for PCs and mobile terminals via USB
- Range up to 100 m
- Communication via virtual COM port
- Wireless M-Bus according to EN13757-4:2005 standard
- OMS (Open Metering System) standard supported
- All operating modes (S, T, R) supported
- Easy switching between modes S1, S1m, S2, T1, T2, R2
- Conforms with EU R&TTE 1999/5/EC directive



## Description

The AMB8465-M is based on the Wireless M-Bus radio module AMB8425-M providing a plug+play PC communications link via USB interface. The USB adapter operates in 12 channels in the 868 MHz frequency band.

The Wireless M-Bus standard (EN13757-4:2005) specifies the communication between water, gas, heat and electricity meters and concentrators. The standard comprises various operating modes (S, T and R) to meet the requirements of one-way and two-way data communication in stationary and mobile systems. By using the USB adapter AMB8465-M, PCs or mobile terminals (such as service terminals) can now easily communicate with wireless M-Bus meters, data concentrators and multi utility control systems (MUCs). The USB adapter fits perfectly as a test + service tool for installations of wireless M-Bus meters or for maintenance work.

The integrated microprocessor controls the entire data communication. Data packets are built and transmitted according to EN13757-4:2005. AMB8465-M supports all operating modes according to the Wireless M-Bus specification. The quality of the radio link can be assessed by using the measured field strength (RSSI value). A graphical user interface of the free windows application „AMBER-ACC“ allows easy configuration of the operating parameters.

## Interfaces

The device is connected either via a virtual COM port or directly via USB using the corresponding software API. The USB controller (FTDI FT232R) supports USB 2.0 (full speed).

## Supported operating systems

The drivers required for the virtual COM port are available for Windows, MAC and Linux at <http://www.ftdichip.com>

## Scope of Application

The USB adapter is designed for automatic meter reading / smart meter reading applications enabling the easy integration of PCs, mobile terminals and service terminals into a wireless M-Bus network.

## Specifications

Performance	Range*	up to 100 m (S mode)
	RF data rate	2.4 / 16.384 / 66.6 kbps (according to EN 13757-4:2005)
Radio Technology	Frequency range	863.03 - 868.95 MHz
	Channel spacing	868.03 MHz + k • 0.06 MHz k=[0.9] 868.30 MHz 868.95 MHz
	Modulation type	2-FSK
	Supported topologies	Point-to-Point, Point-to-Multipoint, Peer-to-Peer

\* Range stated is calculated assuming line-of-sight. Actual range will vary based upon specific board integration, antenna selection, and environment.

## Ordering Information

Item no.	Description
AMB8465-M	Wireless M-Bus USB Adapter with integrated ceramic antenna

## Contact

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