

Battery-powered Wireless M-BUS Repeater

FEATURES

- Wireless M-BUS (EN 13757)
- Battery-powered

RANGE OF APPLICATION

Cost effective range extension for all Wireless M-BUS networks



- Wireless M-BUS according to EN 13757
- S, T or C- Mode adjustable
- Intelligent repeating algorithm
- Channel access through LBT algorithm
- High-precision Real Time Clock (RTC)
- Range up to 2000 m
- Dimensions: 154 x 84 x 56 mm
- Integrated antenna
- Battery lifetime up to 2.5 years, up to 5 years with two battery packs (60 minutes active per day)
- Optional: Multi-hop capability

The AMB8627-M-RP2 is a battery powered unidirectional repeater according to the EN 13757 Wireless M-BUS standard. It is suitable for environments needing range extension in order to reduce the amount of Smart Meter Gateways in the meter reading network. Repeating of OMS frames is supported.

To achieve acceptable battery lifetimes this repeater is active for 30, 45 or 60 minutes per day. This is sufficient to achieve a day based meter readout scenario.

Times for starting the active period can be configured by the customer.

The device supports own alive RF frames for network maintenance issues. Those frames contain a timestamp (Type F) as well as an Operating Time counter for battery lifetime estimation. It supports an installation mode where alive frames will be send once per minute whereas in the active mode the alive frame will be send every 5 minutes.

Up to 20 received wireless M-BUS telegrams can be stored, delayed and repeated simultaneously in active mode.

Setup

The device can be configured through dip switches and a PC-Software together with an USB-to-UART cable.

Specifications

Performance	RF data rate	16.384 / 66.6 / 100 kbps
	Output power	Up to +14 dBm (@ 50 Ohm)
General	RF sensitivity	down to -105 / -101 / -101 dBm (@ 50 Ohm)
	Power supply	Typ. 3.6 V
	Power consumption	Tx: typ. 53 mA @ 14dB / Rx: 30 mA Low Power: typ. 5 uA
	Dimensions	154 x 84 x 56 mm
	Operating Temperature	0 to +55 °C
	Storage Temperature	-20 to 55 °C
RF Technology	Weight	Approx. 400g
	Antenna	Integrated antenna (50 Ohm)
	Technology	Wireless M-BUS 868 MHz
	Frequency range	868.3 to 868.95 MHz
Compliance	Modulation	2-(G)FSK
	Europe	EN 300 220, EN 301489, EN 60950, EN 62479

ABOUT AMBER WIRELESS

AMBER wireless GmbH, established in 1997, is a German electronics company. AMBER specializes in the design and manufacturing of wireless connectivity solutions including compact short range RF modules for rapid implementation of cable-free data links. We have become one of the leading suppliers for low power ISM/SRD products in Europe. AMBER provides high-quality and cost-effective wireless modules and devices as well as custom design services.

SERVICES AVAILABLE

- Technical Support
- Custom Design Services
- Software / App Development
- Hardware Support

For more information on any of our products or services please visit our website:

www.amber-wireless.com

Ordering Information

Item No.	Description
AMB8627-M-RP2	Repeater with one battery pack
AMB1210	Battery pack with Velcro fixing



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