



DATALOG-M24LR-A

Datalogger reference board for the M24LR64-R Dual Interface EEPROM

Data brief

Features

- Ready-to-use printed circuit board (PCB) with:
 - 20 mm x 40 mm 13.56 MHz inductive antenna etched on the PCB
 - STM8L101K3 8-bit microcontroller
 - STTS75 temperature sensor
 - CR2330 battery
 - ON/OFF switch
 - SWIM connector for microcontroller firmware upgrade



Description

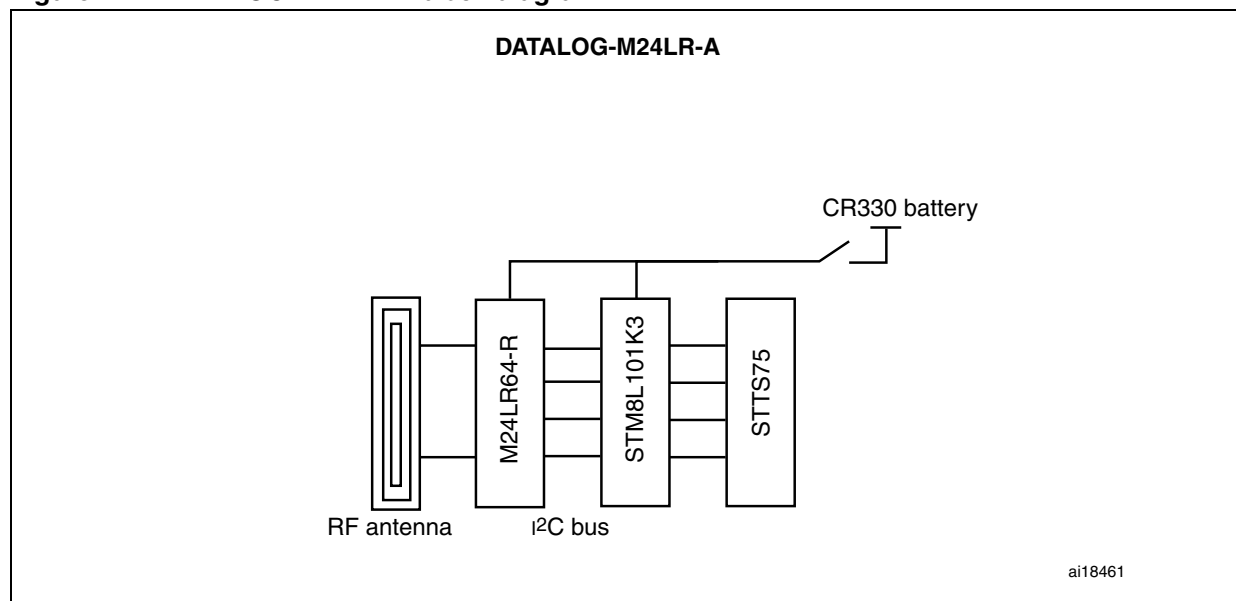
The DATALOG-M24LR-A is a ready-to-use PCB that features an M24LR64-R Dual Interface EEPROM IC connected to an STM8L101K3 8-bit microcontroller through an I²C bus on one side, and to a 20 mm x 40 mm 13.56 MHz etched RF antenna on the other one side. The STM8L101K3 is also interfaced with an STTS75 temperature sensor and a CR2330 coin cell battery.

The DATALOG-M24LR-A allows system designers to start developing a standalone or an embedded datalogger.

The DATALOG-M24LR-A reference board is supported by ST DEVKIT-M24LR-A, STARTKIT-M24LR-A and DEMOKIT-M24LR-A evaluation kits, for which a demonstration software is available.

The reference board Gerber files can be downloaded from <http://www.st.com>.

Figure 1. DATALOG-M24LR-A block diagram



Associated firmware and PC software

The DATALOG-M24LR-A is delivered with:

- An on-board demonstration firmware, the M24LR64-R_Datalogger_application_firmware, that selects and controls the temperature acquisition through a RFID reader connected by a USB cable to a PC
- A PC software, the M24LR64-R_Datalogger_application_software, to configure and control the datalogger, as well as download and display the temperature values.

The firmware source files, the PC software are available from <http://www.st.com>.

Revision history

Table 1. Document revision history

Date	Revision	Changes
27-Aug-2010	1	Initial release.
26-Oct-2010	2	Updated Figure 1 .

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