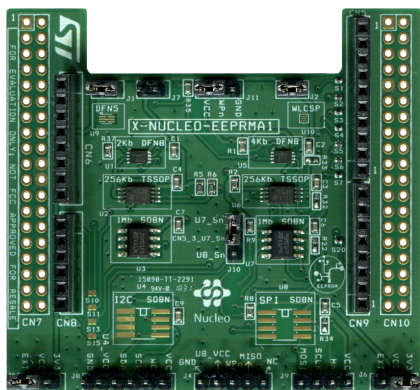## Standard I²C and SPI EEPROM memory expansion board based on M24xx and M95xx series for STM32 Nucleo

Features

- Up to 1-Mbit serial I²C bus embedded EEPROM
- Up to 1-Mbit SPI bus embedded EEPROM with high-speed clock
- Easy portability across different MCU families
- Equipped with Arduino™ UNO R3 connector
- Compatible with STM32 Nucleo boards
- Free comprehensive development firmware library and sample implementation available when the X-NUCLEO-EEPRMA1 expansion board is plugged on top of a NUCLEO-F401RE or NUCLEO-L053R8 development board
- Developer can choose and solder an EEPROM to be tested using the evaluation software provided
- RoHS and WEEE compliant

Description

The X-NUCLEO-EEPRMA1 expansion board is designed for M24xx series I²C and M95xx series SPI EEPROM for data reading and writing.

The expansion board acts as an external storage device that can be used to store data such as manufacturing traceability, calibration, user setting, error flags, data log and monitoring data to make applications more flexible and accurate.

The X-NUCLEO-EEPRMA1 expansion board is compatible with the Arduino UNO R3 connector pin assignment and can be easily plugged to any STM32 Nucleo development board. You can mount the ST morpho connectors if required.

Product summary	
Standard I²C and SPI EEPROM memory expansion board based on M24xx and M95xx series for STM32 Nucleo	X-NUCLEO-EEPRMA1
STM32 Nucleo-64 development board with STM32F401RE MCU	NUCLEO-F401RE
STM32 Nucleo-64 development board with STM32L053R8 MCU	NUCLEO-L053R8
Applications	Industrial Sensors Wireless Connectivity

DB3728 - Rev 2 - August 2020
For further information contact your local STMicroelectronics sales office.

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1   Schematic diagrams

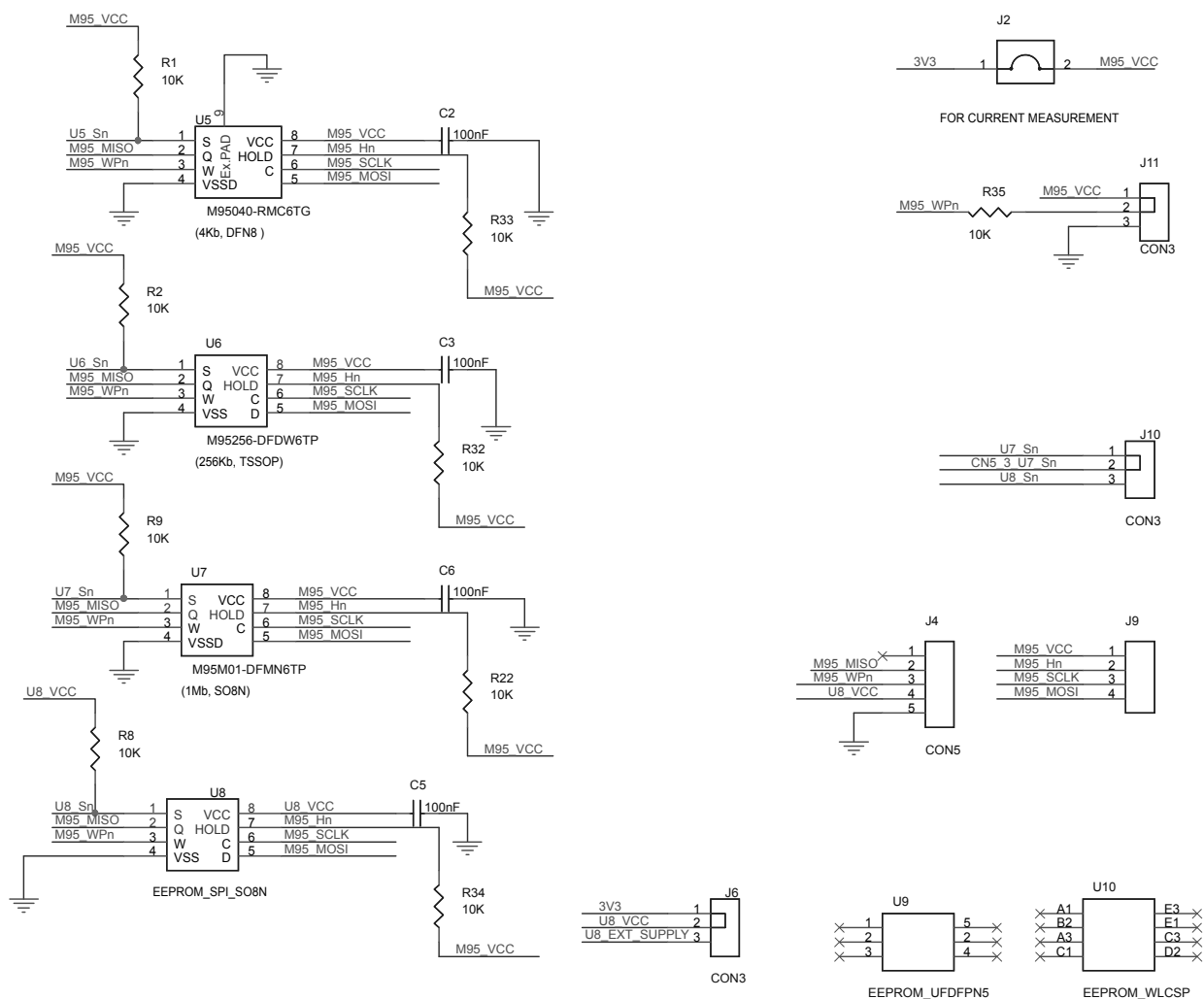**Figure 1. X-NUCLEO-EEPRMA1 circuit schematic (1 of 4)**

Figure 2. X-NUCLEO-EEPRMA1 circuit schematic (2 of 4)
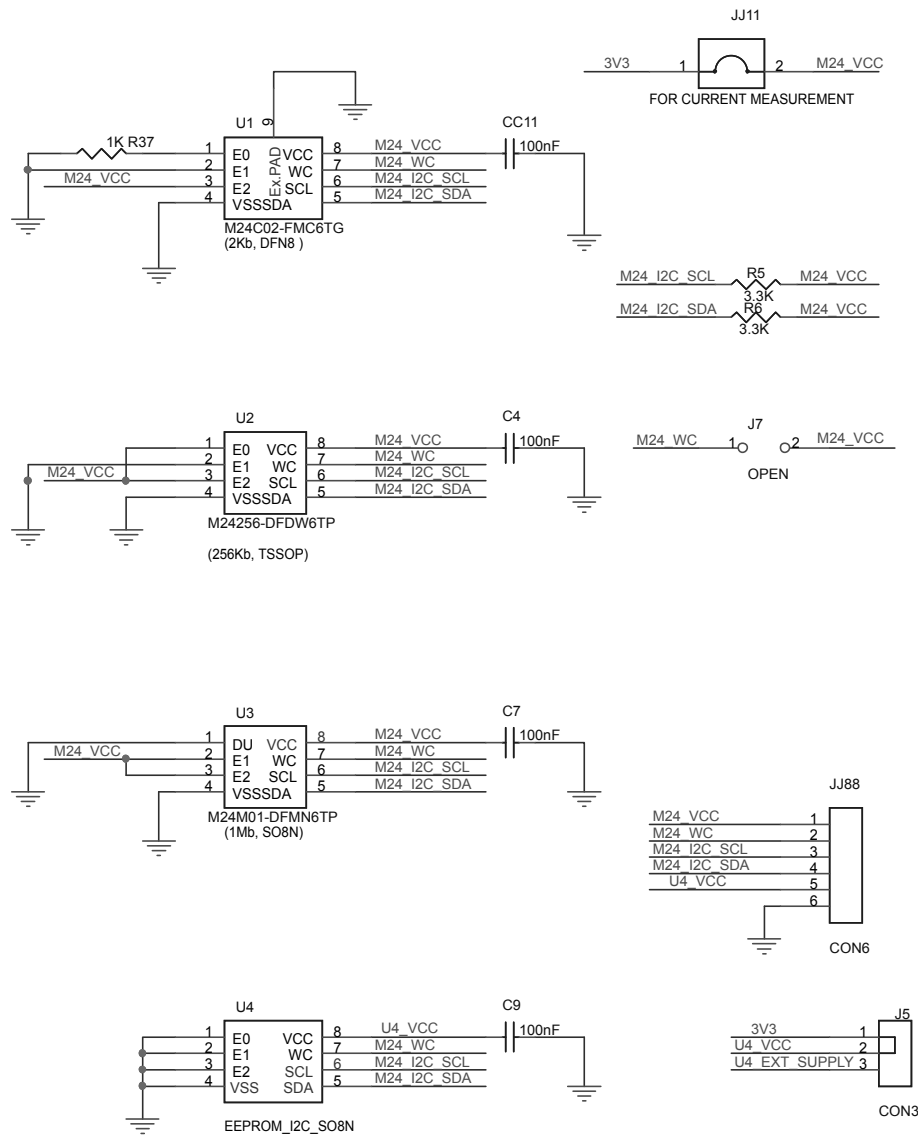

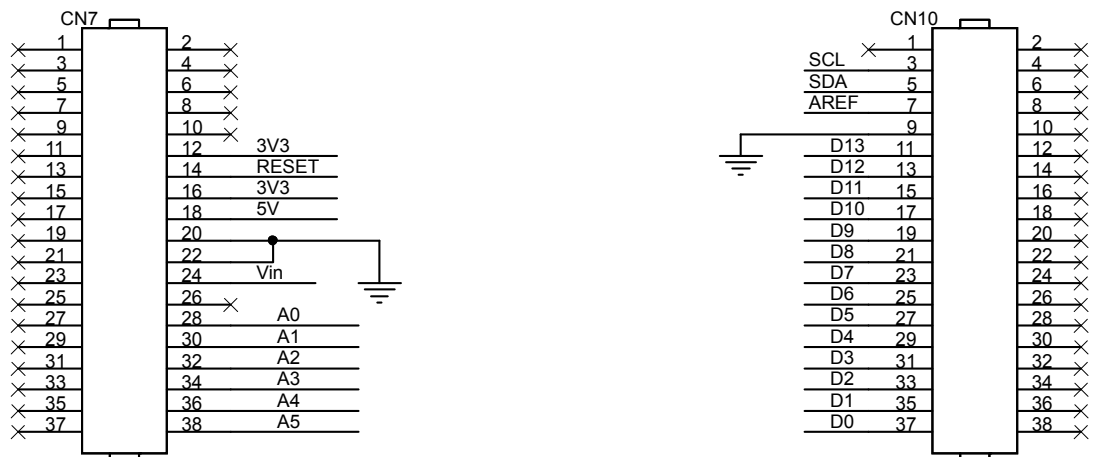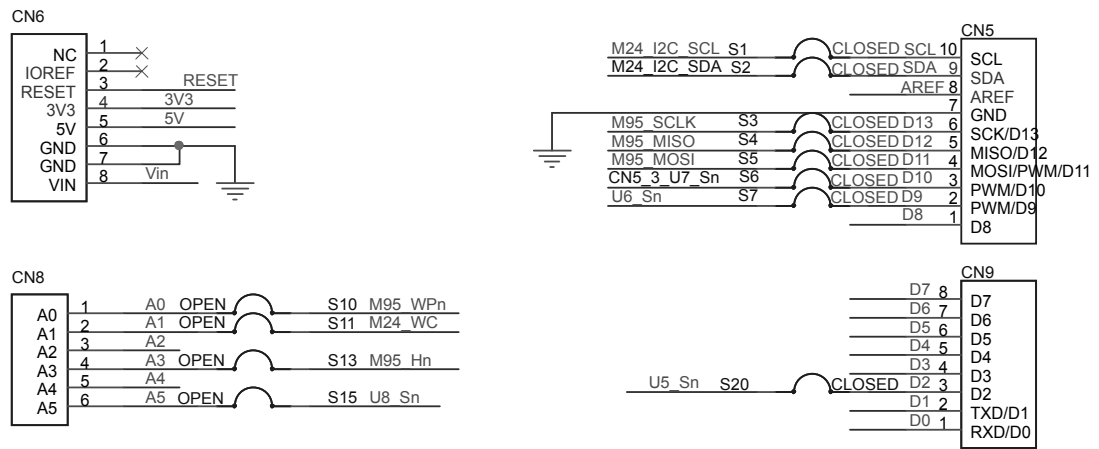**Figure 3. X-NUCLEO-EEPRMA1 circuit schematic (3 of 4)**

Figure 4. X-NUCLEO-EEPRMA1 circuit schematic (4 of 4)

Revision history

Table 1. Document revision history

Date	Version	Changes
02-Oct-2018	1	Initial release.
28-Aug-2020	2	Updated cover page features and product summary table.

IMPORTANT NOTICE – PLEASE READ CAREFULLY

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