

Qwiic EEPROM Breakout Board (512Kbit)

COM-18355

Product Overview

09/26/2022

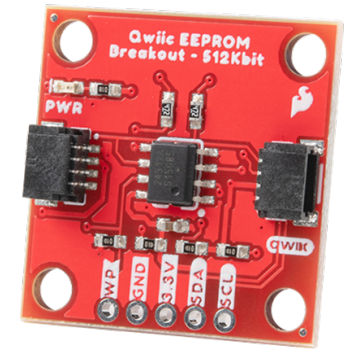
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Description

SparkFun Qwiic EEPROM Breakout Board (512Kbit) is designed to evaluate CAT24C512 IC. This breakout board is simple and cost-effective and comes with an option to add extra storage space. The Qwiic EEPROM breakout board features 512Kbit of storage and is compatible with any Microcontroller (MCU) that does not have EEPROM storage space, like the SAMD21.

The Qwiic EEPROM also features 1mA read current, 3.3V power, an I²C Address of (7-bit), and 1,000,000 program/erase cycles endurance. This breakout board includes three address jumpers allowing for up to eight EEPROMs on one bus. All communication is enacted exclusively via I²C, utilizing the Qwiic system.

The onboard CAT24C512 IC is a 512Kb EEPROM flash memory, organized as 65,536 words of 8-bits each with a 128byte page write buffer. This IC features a 128byte page write buffer and supports the standard (100kHz), fast (400kHz), and fast-plus (1MHz) I²C protocol.



Features

- 3.3V power
- CAT24C512 EEPROM:
 - Supply current:
 - 1mA read current
 - 1.8mA to 2.5mA write current range
- 512Kbit memory
- 128 bytes page write buffer
- Reliability:
 - 1,000,000 program/erase cycles endurance
 - 100 years of data retention
- Write protection
- I²C address (7-bit):
 - 0x50 (default), 0x51, 0x52, 0x53, 0x54, 0x55, 0x56, and 0x57
- 2x Qwiic connectors

Additional Resources

- [Board Dimensions](#)
- [Schematic Diagram](#)

Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-qwicc-eprom-breakout-board-512kbit/>