World’s First 4Mbit SPI EEPROM
M95M04-DR

January 2020
4Mbit SPI EEPROM now available

- 1.8V to 5.5V  -40 / +85°C
- 10MHz SPI Bus
- 5ms Write Time
- 4 Million Erase/Write cycles
- 40 years data retention
- 4Mbit memory organized as 512K bytes
- 1024 pages of 512 Bytes
- Byte alterability
- Lockable page
- Error Code Correction for high reliability

SO8N & TSSOP8 packages
4Mbit EEPROM - Features

- SPI 10MHz at 85°C
  - Less than 0.5 seconds for Sequential Read of 4Mbit (512Kbytes)

- Write time: 5ms for 512 bytes
  - 5 seconds for Data storage of 4Mbit (512K bytes)
  - 1.4 seconds for Data storage of 1Mbit (128K bytes)

- Lockable page of 512 bytes
  - Specific instruction set and read-only lock to Protect sensitive Data

- 4 Million Write cycles at 25°C
  - Datalog: 1 cycle per minute over 8 years
4Mbit EEPROM - Low power

- **Standby mode**: 1µA typical
  - 90% of application operating time

- **Read operation**: 400µA typical at 1V8 5MHz
  - 9% of application operating time

- **Write operation**: 800µA typical at 1V8
  - 1% of application operating time
4Mbit EEPROM – More accuracy & Flexibility

- Medical & health care
- Wearables
- Smart meter
- Automation
- 5G network
- Routers
- Servers

Mix Boot code, Calibration tables, user Parameters and Datalog
Apply for samples at St.com

SO8N  M95M04-DRMN6TP

TSSOP M95M04-DRDW6TP

Serial EEPROM

4Mbit product page


https://www.st.com/content/st_com/en/products/memories/serial-eeprom/standard-serial-eeprom/standard-spi-eeprom/m95m04-dr.html
CONFIDENTIALITY OBLIGATIONS:

THIS DOCUMENT CONTAINS SENSITIVE INFORMATION.

IT IS CLASSIFIED “MICROCONTROLLERS, MEMORIES & SECURE MCUs (MMS) RESTRICTED AND ITS DISTRIBUTION IS SUBMITTED TO ST/MMS AUTHORIZATION

AT ALL TIMES YOU SHOULD COMPLY WITH THE FOLLOWING SECURITY RULES:
- DO NOT COPY OR REPRODUCE ALL OR PART OF THIS DOCUMENT
- KEEP THIS DOCUMENT LOCKED AWAY
- FURTHER COPIES CAN BE PROVIDED ON A “NEED TO KNOW BASIS”, PLEASE CONTACT YOUR LOCAL ST SALES OFFICE OR DOCUMENT WRITER.

Information furnished is believed to be accurate and reliable. However, STMicroelectronics assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of STMicroelectronics. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied. STMicroelectronics products are not authorized for use as critical components in life support devices or systems without express written approval of STMicroelectronics.

The ST logo is registered trademark of STMicroelectronics
All other names are the property of their respective owners

© 2019 STMicroelectronics - All Rights Reserved
STMicroelectronics group of companies Australia - Brazil - Canada - China - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States.

www.st.com