Serial EEPROM

Boost your flexibility with the world’s No.1 EEPROM supplier

As the world’s number one supplier, ST offers optimum and high-performance serial EEPROMs to meet all design requirements with the best and widest portfolio in terms of densities, interfaces, low pin count and cost-effective packages.

With ST’s application-specific memories, you can build your own EEPROM at low cost.

ST’s EEPROM memories boost your flexibility.

Key features

- Industry standard interfaces: I²C, SPI, Microwire
- A complete range of densities in a single package
  - S08: 1 Kbit to 1 Mbit
  - TSSOP8: 1 Kbit to 512 Kbit
  - MLP2x3: 2 Kbit to 512 Kbit
- Extended voltage range: 1.7 V to 5.5 V
- Very high endurance
  - 1 million write cycles, more than 40 years data retention
- Robust design in a robust process
  - High-performance in automotive range:
    - -40 to +125 °C
  - Extended automotive range: -40 to +150 °C
  - High reliability certified flow (HRCF) for the most demanding applications.
- Small form factor thanks to advance process with WLCSP (wafer level chip scale package)
  - Available densities from 8 Kbit to 1 Mbit
  - 128 Kbit in less than 3 mm², 1 Mbit in less than 8 mm²

Key benefits

- Cheapest NVM solution for small density
- Most flexible solution for parameter storage
- No dedicated software development
- Choice of the memory density after the project has been completed (just pay for the bytes you need!)
- The best choice for heavy cycling, high-temperature applications
- Ideal for low Vcc, low-power applications
- More Kbits of EEPROM per mm² on the board thanks to WLCSP

www.st.com/eeprom
Find the right serial EEPROM

<table>
<thead>
<tr>
<th>Density</th>
<th>PC bus</th>
<th>SPI bus</th>
<th>Microwire bus</th>
<th>SPD for DRAM modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Mbit</td>
<td>M24M01</td>
<td>M95M01</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>512 Kbit</td>
<td>M24512</td>
<td>M95512</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>256 Kbit</td>
<td>M24256-B</td>
<td>M95256</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>128 Kbit</td>
<td>M24128-B</td>
<td>M95128</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>64 Kbit</td>
<td>M24C64</td>
<td>M95640</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>32 Kbit</td>
<td>M24C32</td>
<td>M95320</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>16 Kbit</td>
<td>M24C16</td>
<td>M95160</td>
<td>M93C86</td>
<td>-</td>
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<tr>
<td>8 Kbit</td>
<td>M24C08</td>
<td>M95080</td>
<td>M93C76</td>
<td>-</td>
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<tr>
<td>4 Kbit</td>
<td>M24C04</td>
<td>M95040</td>
<td>M93C66/S66*</td>
<td>-</td>
</tr>
<tr>
<td>2 Kbit</td>
<td>M24C02</td>
<td>M95020</td>
<td>M93C56/S56*</td>
<td>M34C02, M34E02</td>
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<tr>
<td>1 Kbit</td>
<td>M24C01</td>
<td>M95010</td>
<td>M93C46/S46*</td>
<td>-</td>
</tr>
</tbody>
</table>

*M93Sxx: version with a user-defined write protected block

High quality at the best cost, ideal for an extensive range of applications