

## EEPROM Serial-I2C 16K-bit 2K x 8 1.8V/2.5V/3.3V/5V 4-Pin WLCSP T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [STMicroelectronics, Inc](#)

**Package/Case:** WLCSP-4

**Product Type:** Memory

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The M24C16-DFCU is a 16-Kbit I2C-compatible EEPROM assembled in a four balls ultra thin chip scale package (WLCSP).

The device is accessed by a simple serial I2C compatible interface running up to 1 MHz. The M24C16-DFCU memory array is based on advanced true EEPROM technology (electrically erasable programmable memory), organized as 128 pages of 16 bytes, with a data integrity improved with an embedded Error Correction Code logic. The M24C16-DFCU offers an additional page, named the identification page (16 byte). The identification page can be used to store sensitive application parameters which can be (later) permanently locked in read-only mode.

### Key Features

- Memory array - Additional write lockable page
- Schmitt trigger inputs for noise filtering
- Write - Byte/page write within 5ms
- Random and sequential read modes
- ESD protection - Human body model 4kV
- Write cycle endurance - 4 million at 25°C and 1.2million write cycles at 85°C
- More than 200 years data retention

### Application

Computers & Computer Peripherals, Industrial, Communications & Networking, Consumer Electronics

### Recommended For You

#### M24C08-RMN6TP

STMicroelectronics, Inc  
SOP8

#### M24C08-WMN6TP

STMicroelectronics, Inc  
SOP8

#### M27C64A-15F1

STMicroelectronics, Inc  
DIP

**M24C08-WDW6TP**

STMicroelectronics, Inc  
TSSOP8

**M24C02-RMN6P**

STMicroelectronics, Inc  
SOP-8

**M27C1001-10F1**

STMicroelectronics, Inc  
CDIP32

**M27C1001-12F6**

STMicroelectronics, Inc  
DIP

**M27C64A-20F1**

STMicroelectronics, Inc  
DIP

**M27C512-15F1**

STMicroelectronics, Inc  
CDIP

**M24C02-RMN6TP**

STMicroelectronics, Inc  
SOP-8

**M27C1001-70F1**

STMicroelectronics, Inc  
DIP

**M24C32-WMN6TP**

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SOP-8

**M27C512-90B6**

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DIP28

**M27C4001-90C6**

STMicroelectronics, Inc  
PLCC-32

**M27C1001-70C1**

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PLCC32