

## Product Overview

### CAT24C04: EEPROM Serial 4-Kb I<sup>2</sup>C

For complete documentation, see the data sheet.

The CAT24C04 is a EEPROM Serial 4-Kb I<sup>2</sup>C device organized internally as 32 pages of 16 bytes each. This device supports both the Standard (100 kHz) as well as Fast (400 kHz) I<sup>2</sup>C protocol.

Data is written by providing a starting address, then loading 1 to 16 contiguous bytes into a Page Write Buffer, and then writing all data to non-volatile memory in one internal write cycle. Data is read by providing a starting address and then shifting out data serially while automatically incrementing the internal address count.

External address pins make it possible to address up to four CAT24C04 devices on the same bus.

### Features

- Supports Standard and Fast I<sup>2</sup>C Protocol
- 1.7 V to 5.5 V Supply Voltage Range
- 16-Byte Page Write Buffer
- Hardware Write Protection for Entire Memory
- Schmitt Triggers and Noise Suppression Filters on I<sup>2</sup>C Bus Inputs (SCL and SDA)
- Low Power CMOS technology
- More than 1,000,000 program/erase cycles
- 100 year data retention
- Industrial and Extended Temperature Range
- RoHS-compliant 8-lead PDIP, SOIC, MSOP and TSSOP, 8-pad TDFN and 5-lead TSOT-23 packages

For more features, see the data sheet

### Applications

- Alarm Systems
- Audio Players
- Automotive Systems
- Cable Modems
- CDRW

### Part Electrical Specifications

Product	Compliance	Status	Type	Density	Organization	Data Transmission Standard	f <sub>cycle</sub> Max (kHz)	t <sub>ACC</sub> Max ns	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>standby</sub> Max (μA)	I <sub>act</sub> Max (mA)	T Min (°C)	T Max (°C)	Package Type
CAT24C04C4ATR	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	WLCS P-4
CAT24C04C5ATR	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	WLCS P-5
CAT24C04HU4I-GT3	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	UDFN-8
CAT24C04TDI-GT3	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	TSOT-23-5
CAT24C04WI-G	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	SOIC-8
CAT24C04WI-GT3	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	SOIC-8
CAT24C04YI-G	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	TSSO P-8
CAT24C04YI-GT3	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	TSSO P-8

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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