

## 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 2-Kb I2C device organized internally as 32 pages of 16 bytes each. This device support both the Standard (100 kHz) as well as Fast (400 kHz) I2C 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 I2C 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 I2C Bus Inputs (SCL and SDA)
- Low Power CMOS technology
- More than 1,000,000 program/erase cycles
- 100 year data retention
- Industrial Temperature Range
- 8-lead SOIC and TSSOP, WLCSP 4 and 5-ball, 8-pad UDFN 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	Pricing (\$/Unit)	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>fact</sub> Max (mA)	T Min (°C)	T Max (°C)	Package Type
CAT24C04C4ATR	0.2133	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	WLCSP-4
CAT24C04C5ATR	0.2347	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	WLCSP-5
CAT24C04HU4I-GT3	0.1733	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	0.1733	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-GT3	0.0867	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	SOIC-8
CAT24C04YI-GT3	0.0867	Pb-free Halide free	Active	Serial	4 kb	512 x 8	I2C	400	-	1.7	5.5	1	1	-40	85	TSSOP-8

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