

## Product Overview

### CAT24C256: EEPROM Serial 256-Kb I<sup>2</sup>C

For complete documentation, see the data sheet.

The CAT24C256 is a EEPROM Serial 256-Kb I<sup>2</sup>C, internally organized as 512 pages of 64 bytes each, for a total of 32,768 bytes of 8 bits each. It features a 64-byte page write buffer and supports the Standard (100 kHz), Fast (400 kHz) and Fast-Plus (1 MHz) I<sup>2</sup>C protocol. Write operations can be inhibited by taking the WP pin High (this protects the entire memory). External address pins make it possible to address up to eight CAT24C256 devices on the same bus. On-Chip ECC (Error Correction Code) makes the device suitable for high reliability applications.

### Features

- Supports Standard, Fast and Fast-Plus I<sup>2</sup>C Protocol
- 1.8 V to 5.5 V Supply Voltage Range
- 64-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
- 1,000,000 program/erase cycles
- 100 Year Data Retention
- Industrial temperature range
- 8-lead SOIC and TSSOP and 8-pad UDFN 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>act</sub> Max (mA)	T Min (°C)	T Max (°C)	Package Type
CAT24C256HU4IGT3	0.2533	Pb-free Halide free	Active	Serial	256 kb	32k x 8	I <sup>2</sup> C	1000	400	1.8	5.5	2	3	-40	85	UDFN-8
CAT24C256WI-GT3	0.2	Pb-free Halide free	Active	Serial	256 kb	32k x 8	I <sup>2</sup> C	400	900	1.8	5.5	1	1	-40	85	SOIC-8
CAT24C256YI-GT3	0.2	Pb-free Halide free	Active	Serial	256 kb	32k x 8	I <sup>2</sup> C	400	900	1.8	5.5	1	1	-40	85	TSSOP-8

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