Product Overview

CAT24C256: EEPROM Serial 256-Kb I^2C

For complete documentation, see the data sheet.

The CAT24C256 is a EEPROM Serial 256-Kb I2C, 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) I2C 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 I2C 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 I2C 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	Compliance	Status	Type	Density	Organization	Data Transmission Standard	f_{cycle} Max (kHz)	t_{ACC} Max ns	V_{CC} Min (V)	V_{CC} Max (V)	$I_{standby}$ Max (µA)	I_{act} Max (mA)	T Min (°C)	T Max (°C)	Package Type
CAT24C256HU4IGT3	Pb-free / Halide free	Active	Serial	256 kb	32k x 8	I2C	1000	400	1.8	5.5	2	3	-40	85	UDFN-8
CAT24C256WI-GT3	Pb-free / Halide free	Active	Serial	256 kb	32k x 8	I2C	400	900	1.8	5.5	1	1	-40	85	SOIC-8
CAT24C256YI-GT3	Pb-free / Halide free	Active	Serial	256 kb	32k x 8	I2C	400	900	1.8	5.5	1	1	-40	85	TSSOP-8

For more information please contact your local sales support at www.onsemi.com.

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