

Product Overview

CAT24AA16: EEPROM Serial 16-Kb I²C

For complete documentation, see the data sheet.

The CAT24AA16 is a EEPROM Serial 16-Kb I²C device internally organized as 2048x8 bits. The device features a 16-byte page write buffer and supports 100 kHz, 400 kHz and 1 MHz I²C protocols. 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.

Features

- Standard and Fast I²C Protocol Compatible
- Supports 1 MHz Clock Frequency
- 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
- 1,000,000 Program/Erase Cycles
- 100 Year Data Retention
- Industrial Temperature Range

For more features, see the data sheet

Part Electrical Specifications

Product	Pricing (\$/Unit)	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
CAT24AA16TDI-GT3	0.192	Pb-free Halide free	Active	Serial	16 kb	2k x 8	I ² C	1000	-	1.7	5.5	1	1	-40	85	TSO T-23-5

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

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