

CAT25010

EEPROM Serial 1-Kb SPI

Product Overview

For complete documentation, see the data sheet.

The CAT25010 is a EEPROM Serial 1-Kb SPI device internally organized as 128x8 bits. ON Semiconductor's advanced CMOS Technology substantially reduces device power requirements. It features a 16-byte page write buffer and supports the Serial Peripheral Interface (SPI) protocol. The device is enabled through a Chip Select (CS) input. In addition, the required bus signals are a clock input (SCK), data input (SI) and data output (SO) lines. The HOLD input may be used to pause any serial communication with the CAT25010 device. This device features software and hardware write protection, including partial as well as full array protection.

Features

- 20 MHz (5 V) SPI Compatible
- 1.8 V to 5.5 V Supply Voltage Range
- SPI Modes (0,0 and 1,1)
- 16-byte Page Write Buffer
- Self-timed Write Cycle
- Hardware and Software Protection
- Block Write Protection- Protect 1/4, 1/2 or Entire EEPROM Array
- Low Power CMOS Technology
- 1,000,000 Program/Erase Cycles
- 100 year Data Retention

For more features, see the data sheet

Applications

- Automotive Systems
- Communications Systems
- Computer Systems
- Consumer Systems
- Industrial Systems

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 _{stand by} Max (μA)	I _{act} Max (mA)	T Min (°C)	T Max (°C)	Package Type
CAT25010HU4I-GT3	0.24		Active	Serial	1 kb	128k x 8	SPI	1000	-	1.8	5.5	2	2	-40	85	UDFN-8
CAT25010VI-GT3	0.1733		Active	Serial	1 kb	128k x 8	SPI	1000	-	1.8	5.5	2	2	-40	85	SOIC-8
CAT25010YI-GT3	0.1587		Active	Serial	1 kb	128k x 8	SPI	1000	-	1.8	5.5	2	2	-40	85	TSSOP-8