

ON SEMICONDUCTOR Serial EEPROMs

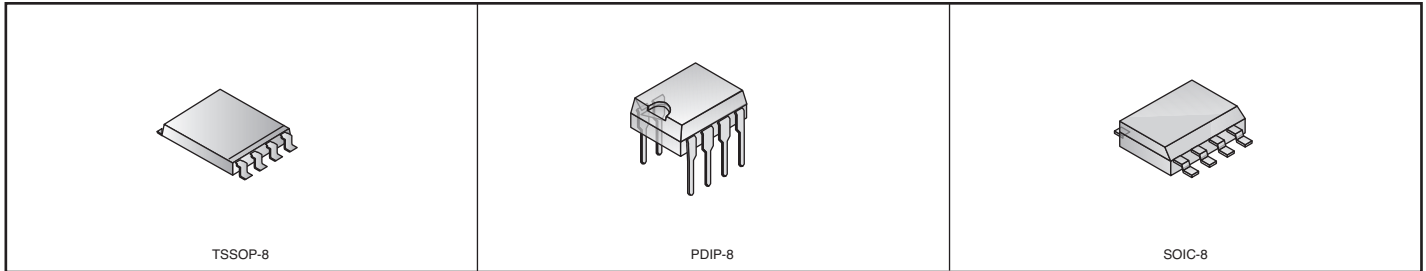
ON Semiconductor®



RoHS Compliant This product is RoHS compliant.

Memory

Catalyst



CATALYST I²C BUS (2-WIRE) LOW STANDBY CURRENT, PARTIAL ARRAY WRITE PROTECTION

These I²C Serial CMOS EEPROMs, internally organized as 16 pages of 16 bytes each, for a total of 256 bytes of 8 bits each. It features a 16-byte page write buffer and supports both the Standard (100 kHz) as well as Fast (400 kHz) I²C protocol. Write operations can be inhibited by taking the WP pin High (this protects the entire memory) or by setting an internal Write Protect flag via Software command (this protects the lower half of the memory).

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
- Software Write Protection for lower 128 Bytes
- 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



RoHS Compliant

◆ Surface Mount

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Catalyst Stock No.	Case Type	Density	Organization	Temperature Range (°C)	Operating Voltage (V)	Price Each			
							1	25	100	250
◆ 698-CAT34C02YI-G	CAT34C02YI-G	TSSOP-8	2K	256 x 8	- 40 to + 85	1.8 to 5.5	.38	.30	.29	.27

CATALYST I²C BUS (2-WIRE) LOW STANDBY CURRENT, FULL ARRAY WRITE PROTECTION

These I²C Serial CMOS EEPROMs features a 16-byte page write buffer and supports both the Standard (100 kHz) as well as Fast (400 kHz) I²C protocol. Write operations can be inhibited by taking the WP pin High (this protects the entire memory).

Features:

- Supports Standard and Fast I²C Protocol
- 1.8 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



RoHS Compliant

◆ Surface Mount

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Catalyst Stock No.	Case Type	Density	Organization	Temperature Range (°C)	Operating Voltage (V)	Price Each			
							1	25	100	250
◆ 698-CAT24C01LI-G	CAT24C01LI-G	PDIP-8	1K	128 x 8	- 40 to + 85	1.8 to 5.5	.38	.30	.29	.27
◆ 698-CAT24C01WI-G	CAT24C01WI-G	SOIC-8	1K	128 x 8	- 40 to + 85	1.8 to 5.5	.33	.263	.253	.234
◆ 698-CAT24C01YI-G	CAT24C01YI-G	TSSOP-8	1K	128 x 8	- 40 to + 85	1.8 to 5.5	.34	.27	.26	.24
◆ 698-CAT24C02LI-G	CAT24C02LI-G	PDIP-8	2K	256 x 8	- 40 to + 85	1.8 to 5.5	.38	.30	.29	.27
◆ 698-CAT24C02WI-G	CAT24C02WI-G	SOIC-8	2K	256 x 8	- 40 to + 85	1.8 to 5.5	.33	.263	.253	.234
◆ 698-CAT24C02YI-G	CAT24C02YI-G	TSSOP-8	2K	256 x 8	- 40 to + 85	1.8 to 5.5	.33	.263	.253	.234
◆ 698-CAT24C04LI-G	CAT24C04LI-G	PDIP-8	4K	512 x 8	- 40 to + 85	1.8 to 5.5	.42	.34	.32	.29
◆ 698-CAT24C04WI-G	CAT24C04WI-G	SOIC-8	4K	512 x 8	- 40 to + 85	1.8 to 5.5	.37	.293	.283	.263
◆ 698-CAT24C04YI-G	CAT24C04YI-G	TSSOP-8	4K	512 x 8	- 40 to + 85	1.8 to 5.5	.37	.293	.283	.263
◆ 698-CAT24C08LI-G	CAT24C08LI-G	PDIP-8	8K	1024 x 8	- 40 to + 85	1.8 to 5.5	.46	.37	.35	.32
◆ 698-CAT24C08WI-G	CAT24C08WI-G	SOIC-8	8K	1024 x 8	- 40 to + 85	1.8 to 5.5	.41	.332	.312	.283
◆ 698-CAT24C08YI-G	CAT24C08YI-G	TSSOP-8	8K	1024 x 8	- 40 to + 85	1.8 to 5.5	.41	.332	.312	.283
◆ 698-CAT24C16LI-G	CAT24C16LI-G	PDIP-8	16K	2048 x 8	- 40 to + 85	1.8 to 5.5	.50	.40	.38	.35
◆ 698-CAT24C16WI-G	CAT24C16WI-G	SOIC-8	16K	2048 x 8	- 40 to + 85	1.8 to 5.5	.44	.361	.342	.312
◆ 698-CAT24C16YI-G	CAT24C16YI-G	TSSOP-8	16K	2048 x 8	- 40 to + 85	1.8 to 5.5	.44	.361	.342	.312
◆ 698-CAT24C32LI-G	CAT24C32LI-G	PDIP-8	32K	4096 x 8	- 40 to + 85	1.8 to 5.5	.70	.56	.53	.49
◆ 698-CAT24C32WI-G	CAT24C32WI-G	SOIC-8	32K	4096 x 8	- 40 to + 85	1.8 to 5.5	.64	.517	.488	.449
◆ 698-CAT24C32YI-G	CAT24C32YI-G	TSSOP-8	32K	4096 x 8	- 40 to + 85	1.8 to 5.5	.64	.517	.488	.449
◆ 698-CAT24C64LI-G	CAT24C64LI-G	PDIP-8	64K	8192 x 8	- 40 to + 85	1.8 to 5.5	.84	.67	.63	.59
◆ 698-CAT24C64WI-G	CAT24C64WI-G	SOIC-8	64K	8192 x 8	- 40 to + 85	1.8 to 5.5	.78	.625	.586	.547
◆ 698-CAT24C64YI-G	CAT24C64YI-G	TSSOP-8	64K	8192 x 8	- 40 to + 85	1.8 to 5.5	.78	.625	.586	.547
◆ 698-CAT24C128LI-G	CAT24C128LI-G	PDIP-8	128K	16384 x 8	- 40 to + 85	1.8 to 5.5	1.14	.91	.86	.80
◆ 698-CAT24C128WI-G	CAT24C128WI-G	SOIC-8	128K	16384 x 8	- 40 to + 85	1.8 to 5.5	1.07	.86	.811	.752
◆ 698-CAT24C256LI-G	CAT24C256LI-G	PDIP-8	256K	32768 x 8	- 40 to + 85	1.8 to 5.5	1.74	1.39	1.31	1.22
◆ 698-CAT24C256WI-G	CAT24C256WI-G	SOIC-8	256K	32768 x 8	- 40 to + 85	1.8 to 5.5	1.66	1.32	1.25	1.16

CATALYST MICROWIRE BUS (3-WIRE)

These Microwire Serial EEPROMs are configured as either registers of 16 bits (ORG pin at VCC) or 8 bits (ORG pin at GND). Each register can be written (or read) serially by using the DI (or DO) pin. They are manufactured using Catalyst's advanced CMOS EEPROM floating gate technology. The devices are designed to endure 1,000,000 program/erase cycles and has a data retention of 100 years.

Features:

- High speed operation: 1MHz
- Low power CMOS technology
- 1.8 to 6.0 volt operation
- Selectable x8 or x16 memory organization
- Self-timed write cycle with auto-clear
- Hardware and software write protection
- Power-up inadvertent write protection
- 1,000,000 Program/erase cycles
- 100 year data retention
- Sequential read



RoHS Compliant

◆ Surface Mount

For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Catalyst Stock No.	Case Type	Density	Organization	Temperature Range (°C)	Operating Voltage (V)	Price Each			
							1	25	100	250
◆ 698-CAT93C46LI-G	CAT93C46LI-G	PDIP-8	1K	128 x 8/64 x 16	- 40 to + 85	2.5 to 5.5	.34	.27	.26	.24
◆ 698-CAT93C46VI-G	CAT93C46VI-G	SOIC-8	1K	128 x 8/64 x 16	- 40 to + 85	2.5 to 5.5	.29	.234	.224	.205
◆ 698-CAT93C46WI-G	CAT93C46WI-G	SOIC-8	1K	128 x 8/64 x 16	- 40 to + 85	2.5 to 5.5	.29	.234	.224	.205
◆ 698-CAT93C46YI-G	CAT93C46YI-G	TSSOP-8	1K	128 x 8/64 x 16	- 40 to + 85	2.5 to 5.5	.30	.24	.23	.21
◆ 698-CAT93C56LI-G	CAT93C56LI-G	PDIP-8	2K	256x8/128x16	- 40 to + 85	2.5 to 5.5	.38	.30	.29	.27
◆ 698-CAT93C56VI-G	CAT93C56VI-G	SOIC-8	2K	256x8/128x16	- 40 to + 85	2.5 to 5.5	.33	.263	.254	.234
◆ 698-CAT93C56YI-G	CAT93C56YI-G	TSSOP-8	2K	256x8/128x16	- 40 to + 85	2.5 to 5.5	.33	.263	.254	.234
◆ 698-CAT93C66LI-G	CAT93C66LI-G	PDIP-8	4K	512x8/256x16	- 40 to + 85	2.5 to 5.5	.40	.32	.30	.28
◆ 698-CAT93C66VI-G	CAT93C66VI-G	SOIC-8	4K	512x8/256x16	- 40 to + 85	2.5 to 5.5	.35	.283	.263	.244
◆ 698-CAT93C66YI-G	CAT93C66YI-G	TSSOP-8	4K	512x8/256x16	- 40 to + 85	2.5 to 5.5	.35	.283	.263	.244
◆ 698-CAT93C86LI-G	CAT93C86LI-G	PDIP-8	8K	2048x8/1024x16	- 40 to + 85	2.5 to 5.5	.46	.37	.35	.32
◆ 698-CAT93C86VI-G	CAT93C86VI-G	SOIC-8	8K	2048x8/1024x16	- 40 to + 85	2.5 to 5.5	.41	.332	.312	.283