

## Product Overview

### CAT93C86: 16 Kb Microwire Serial EEPROM Memory

For complete documentation, see the data sheet

#### Product Description

The CAT93C86 is a 16 Kb Serial EEPROM memory device which is configured as either registers of 16 bits (ORG pin at  $V_{CC}$ ) or 8 bits (ORG pin at GND). Each register can be written (or read) serially by using the DI (or DO) pin. The CAT93C86 features a self-timed internal write with auto-clear. On-chip Power-On Reset circuit protects the internal logic against powering up in the wrong state.

#### Features

- High Speed Operation: 4 MHz (5 V), 2 MHz (1.8 V)
- 1.8 V (1.65 V) to 5.5 V Supply Voltage Range
- Selectable x8 or x16 Memory Organization
- Self-timed Write Cycle with Auto-clear
- Sequential Read
- Hardware and Software Write Protection
- Power-up Inadvertent Write Protection
- Low Power CMOS Technology
- Program Enable (PE) Pin
- 1,000,000 Program/Erase Cycles

#### Part Electrical Specifications

Product	Compliance	Status	Type	Density	Organization	Data Transmission Standard	$f_{\text{cycle Max}}$ (kHz)	$t_{\text{ACC Max}}$	$V_{\text{CC Min}}$ (V)	$V_{\text{CC Max}}$ (V)	$I_{\text{standby Max}}$ ( $\mu\text{A}$ )	$I_{\text{act Max}}$ (mA)	T Min ( $^{\circ}\text{C}$ )	T Max ( $^{\circ}\text{C}$ )	Package Type
CAT93C86HU4E-GT3	Pb-free Halide free	Product Preview	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	125	UDFN-8
CAT93C86HU4I-GT3	Pb-free Halide free	Product Preview	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	85	UDFN-8
CAT93C86LI-G	Pb-free Halide free	Active	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	85	PDIP-8
CAT93C86VE-GT3	Pb-free Halide free	Product Preview	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	125	SOIC-8
CAT93C86VI-G	Pb-free Halide free	Active	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	85	SOIC-8
CAT93C86VI-GT3	Pb-free Halide free	Active	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	85	SOIC-8
CAT93C86YI-G	Pb-free Halide free	Product Preview	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	85	TSSOP-8
CAT93C86YI-GT3	Pb-free Halide free	Product Preview	Serial	16 kb	2k x 8	Micro Wire	2000	150	1.8	5.5	10	3	-40	85	TSSOP-8

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