



# 93AA46A/B/C, 93LC46A/B/C, 93C46A/B/C

## 1K Microwire Compatible Serial EEPROM

### Device Selection Table

Part Number	Vcc Range	ORG Pin	Word Size	Temp Ranges	Packages
93AA46A	1.8-5.5	No	8-bit	I	P, SN, ST, MS, OT, MC, MN
93AA46B	1.8-5.5	No	16-bit	I	P, SN, ST, MS, OT, MC, MN
93LC46A	2.5-5.5	No	8-bit	I, E	P, SN, ST, MS, OT, MC, MN
93LC46B	2.5-5.5	No	16-bit	I, E	P, SN, ST, MS, OT, MC, MN
93C46A	4.5-5.5	No	8-bit	I, E	P, SN, ST, MS, OT, MC, MN
93C46B	4.5-5.5	No	16-bit	I, E	P, SN, ST, MS, OT, MC, MN
93AA46C	1.8-5.5	Yes	8- or 16-bit	I	P, SN, ST, MS, MC, MN
93LC46C	2.5-5.5	Yes	8- or 16-bit	I, E	P, SN, ST, MS, MC, MN
93C46C	4.5-5.5	Yes	8- or 16-bit	I, E	P, SN, ST, MS, MC, MN

### Features:

- Low-Power CMOS Technology
- ORG Pin to Select Word Size for '46C' Version
- 128 x 8-bit Organization 'A' Devices (no ORG)
- 64 x 16-bit Organization 'B' Devices (no ORG)
- Self-Timed Erase/Write Cycles (including Auto-Erase)
- Automatic Erase All (ERAL) Before Write All (WRAL)
- Power-On/Off Data Protection Circuitry
- Industry Standard 3-Wire Serial I/O
- Device Status Signal (Ready/Busy)
- Sequential Read Function
- 1,000,000 Erase/Write Cycles
- Data Retention > 200 Years
- RoHS Compliant
- Temperature Ranges Supported:
  - Industrial (I) -40°C to +85°C
  - Automotive (E) -40°C to +125°C

### Pin Function Table

Name	Function
CS	Chip Select
CLK	Serial Data Clock
DI	Serial Data Input
DO	Serial Data Output
Vss	Ground
NC	No internal connection
ORG	Memory Configuration
Vcc	Power Supply

### Description:

The Microchip Technology Inc. 93XX46A/B/C devices are 1Kbit low-voltage serial Electrically Erasable PROMs (EEPROM). Word-selectable devices such as the 93AA46C, 93LC46C or 93C46C are dependent upon external logic levels driving the ORG pin to set word size. For dedicated 8-bit communication, the 93AA46A, 93LC46A or 93C46A devices are available, while the 93AA46B, 93LC46B and 93C46B devices provide dedicated 16-bit communication. Advanced CMOS technology makes these devices ideal for low-power, nonvolatile memory applications. The entire 93XX Series is available in standard packages including 8-lead PDIP and SOIC, and advanced packaging including 8-lead MSOP, 6-lead SOT-23, 8-lead 2x3 DFN/TDFN and 8-lead TSSOP. All packages are Pb-free (Matte Tin) finish.

# 93AA46A/B/C, 93LC46A/B/C, 93C46A/B/C

## Package Types (not to scale)

