

## 12. Ordering Information

Atmel Ordering Code	Lead Finish	Package	Delivery Information		Operation Range
			Form	Quantity	
AT24C01C-SSHM-B	NiPdAu (Lead-free/Halogen-free)	8S1	Bulk (Tubes)	100 per Tube	Industrial Temperature (-40°C to 85°C)
AT24C01C-SSHM-T			Tape and Reel	4,000 per Reel	
AT24C01C-XHM-B		8X	Bulk (Tubes)	100 per Tube	
AT24C01C-XHM-T			Tape and Reel	5,000 per Reel	
AT24C01C-MAHM-T		8MA2	Tape and Reel	5,000 per Reel	
AT24C01C-MAHM-E			Tape and Reel	15,000 per Reel	
AT24C01C-PUM	Matte Tin (Lead-free/Halogen-free)	8P3	Bulk (Tubes)	50 per Tube	
AT24C01C-STUM-T		5TS1	Tape and Reel	5,000 per Reel	
AT24C01C-CUM-T	SnAgCu Ball (Lead-free/Halogen-free)	8U3-1	Tape and Reel	5,000 per Reel	
AT24C01C-WWU11M <sup>(1)</sup>	N/A	Wafer Sale	Note 1		
AT24C02C-SSHM-B	NiPdAu (Lead-free/Halogen-free)	8S1	Bulk (Tubes)	100 per Tube	Industrial Temperature (-40°C to 85°C)
AT24C02C-SSHM-T			Tape and Reel	4,000 per Reel	
AT24C02C-XHM-B		8X	Bulk (Tubes)	100 per Tube	
AT24C02C-XHM-T			Tape and Reel	5,000 per Reel	
AT24C02C-MAHM-T		8MA2	Tape and Reel	5,000 per Reel	
AT24C02C-MAHM-E			Tape and Reel	15,000 per Reel	
AT24C02C-PUM	Matte Tin (Lead-free/Halogen-free)	8P3	Bulk (Tubes)	50 per Tube	
AT24C02C-STUM-T		5TS1	Tape and Reel	5,000 per Reel	
AT24C02C-CUM-T	SnAgCu Ball (Lead-free/Halogen-free)	8U3-1	Tape and Reel	5,000 per Reel	
AT24C02C-WWU11M <sup>(1)</sup>	N/A	Wafer Sale	Note 1		

Note: 1. For Wafer sales, please contact Atmel Sales.

Package Type	
8P3	8-lead, 0.300" wide, Plastic Dual Inline (PDIP)
8S1	8-lead, 0.150" wide, Plastic Gull Wing Small Outline (JEDEC SOIC)
8X	8-lead, 4.4mm body, Plastic Thin Shrink Small Outline (TSSOP)
8MA2	8-lead, 2.00mm x 3.00mm body, 0.50mm Pitch, Ultra Thin Dual Flat No Lead (UDFN)
5TS1	5-lead, 2.90mm x 1.60mm body, Plastic Thin Shrink Small Outline (SOT23)
8U3-1	8-ball, die Ball Grid Array (VFBGA)

**I<sup>2</sup>C-Compatible (2-wire) Serial EEPROM**  
**1-Kbit (128 x 8), 2-Kbit (256 x 8)**

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**DATASHEET****Features**

- Low-voltage Operation
  - $V_{CC} = 1.7V$  to  $5.5V$
- Internally Organized as 128 x 8 (1K) or 256 x 8 (2K)
- I<sup>2</sup>C Compatible (2-wire) Serial Interface
- Schmitt Trigger, Filtered Inputs for Noise Suppression
- Bidirectional Data Transfer Protocol
- 400kHz (1.7V) and 1MHz (2.5V, 2.7V, 5.0V) Compatibility
- Write Protect Pin for Hardware Data Protection
- 8-byte Page Write Mode
  - Partial Page Writes Allowed
- Self-timed Write Cycle (5ms max)
- High-reliability
  - Endurance: 1,000,000 Write Cycles
  - Data Retention: 100 Years
- Green Package Options (Pb/Halide-free/RoHS-compliant)
  - 8-lead PDIP, 8-lead JEDEC SOIC, 8-lead TSSOP, 8-pad UDFN, 5-lead SOT23, and 8-ball VFBGA
- Die Sale Options: Wafer Form and Tape and Reel Available

**Description**

The Atmel® AT24C01C/02C provides 1024/2048-bits of Serial Electrically Erasable and Programmable Read-Only Memory (EEPROM) organized as 128/256 words of eight bits each. Both devices include a cascading feature that allows up to eight devices to share a common 2-wire bus. These devices are optimized for use in many industrial and commercial applications where low power and low voltage operation are essential. The AT24C01C/02C are available in space saving 8-lead PDIP, 8-lead JEDEC SOIC, 8-lead TSSOP, 8-lead UDFN, 5-lead SOT23, and 8-ball VFBGA packages. In addition, the entire family operates from 1.7V to 5.5V  $V_{CC}$ .