

Two-Wire Serial EEPROM

❖ GENERAL DESCRIPTION

The AX24C32/64 provides 32,768/65,536 bits of serial electrically erasable and programmable read-only memory (EEPROM) organized as 4096/8192 words of 8 bits each. The device is optimized for use in many industrial and commercial applications where low-power and low-voltage operation are essential. The AX24C32/64 is available in space-saving 8-lead SOP and 8-lead TSSOP packages and is accessed via a two-wire serial interface.

❖ FEATURES

- Wide Voltage Operation
- $V_{CC} = 1.7V$ to 5.5V
- Operating Ambient Temperature: 0°C to +70°C
- Internally Organized:
 - AX24C32, 4096 X 8 (32K bits)
 - AX24C64, 8192 X 8 (64K bits)
- Two-wire Serial Interface
- Schmitt Trigger, Filtered Inputs for Noise Suppression
- Bidirectional Data Transfer Protocol
- 1 MHz (5V), 400 kHz (1.7V, 2.5V, 2.7V) Compatibility
- Write Protect Pin for Hardware Data Protection
- 32-byte Page (32K, 64K) Write Modes
- Partial Page Writes Allowed
- Self-timed Write Cycle (5 ms max)
- High-reliability
 - Endurance: 1 Million Write Cycles
 - Data Retention: 100 Years
- 8-lead SOP and TSSOP Packages