



ACE25QA400GE

4M BIT SPI NOR FLASH

Description

The ACE25QA400GE is 4M-bit Serial Peripheral Interface (SPI) Flash memory, and supports the Dual SPI: Serial Clock, Chip Select, Serial Data I/O0 (SI), I/O1 (SO). The Dual Output data is transferred with speed of 108Mbits/s. The device uses a single low voltage power supply, ranging from 2.7 Volt to 3.6 Volt. Additionally, the device supports JEDEC standard manufacturer and device ID.

In order to meet environmental requirements, ACE Technology offers an SOP-8 150mil or 208mil, TSSOP-8 173mil, and USON3*2-8 packages.

Features

- Serial Peripheral Interface (SPI)
 - Standard SPI: SCLK, /CS, SI, SO
 - Dual SPI: SCLK, /CS, IO0, IO1
- Read
 - Normal Read (Serial): 65MHz clock rate
 - Fast Read (Serial): 120MHz clock rate
 - Dual Read: 100MHz clock rate
- Program
 - Serial-input Page Program up to 256 bytes
- Erase
 - Block erase (64/32 KB)
 - Sector erase (4 KB)
 - Chip erase
- Program/Erase Speed
 - Page Program time: 0.9ms typical
 - Sector Erase time: 50ms typical
 - Block Erase time: 0.15/0.25s typical
 - Chip Erase time: 1.6s typical
- Flexible Architecture
 - Sector of 4K-byte
 - Block of 32/64K-byte
- Low Power Consumption
 - 6mA maximum active current
 - 1uA maximum power down current
- Software/Hardware Write Protection
 - Write protect all/portion of memory via software
 - Top or Bottom, Sector or Block selection



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- **Single Supply Voltage**
Full voltage range: 2.7~3.6V
- **Temperature Range**
Commercial (-40°C to 85°C)
Industrial (-40°C to 85°C)
Industrial (-40°C to 105°C)
- **Cycling Endurance/Data Retention**
Typical 100k Program-Erase cycles on any sector
Typical 20-year data retention
- **Advanced Feature**
128 bits Unique ID for each device

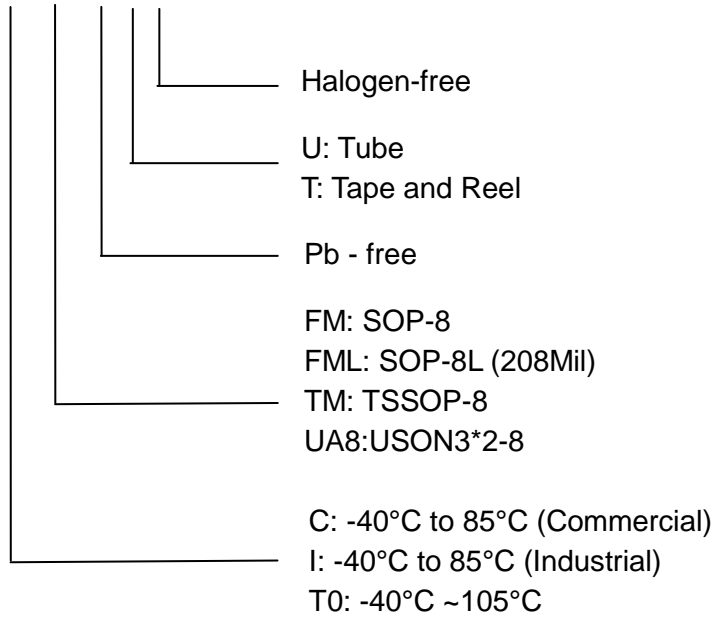


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Ordering information

ACE25QA400GE X XXX + X H





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Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As sued herein:

1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ACE Technology Co., LTD.
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