

512MB, 3V, Multiple I/O, 4KB Sector Erase

- Tin-lead ball metallurgy
- Stacked device (two 256Mb die)
- SPI-compatible serial bus interface
- Double transfer rate (DTR) mode
- 2.7-3.6V single supply voltage
- 108 MHz (MAX) clock frequency supported for all protocols in single transfer rate (STR) mode
- 54 MHz (MAX) clock frequency supported for all protocols in DTR mode
- Dual/quad I/O instruction provides increased throughput up to 54 MB/s
- Supported protocols
 - Extended SPI, dual I/O, and quad I/O
 - DTR mode supported on all
- Execute-in-place (XIP) mode for all three protocols
 - Configurable via volatile or nonvolatile registers
 - Enables memory to work in XIP mode directly after power-on
- PROGRAM/ERASE SUSPEND operations
- Available protocols
 - Available READ operations
 - Quad or dual output fast read
 - Quad or dual I/O fast read
- Flexible to fit application
 - Configurable number of dummy cycles
 - Output buffer configurable
- Erase capability
 - Subsector erase 4KB uniform granularity blocks
 - Sector erase 64KB uniform granularity blocks
 - Single die erase

- Additional reset pin for selected part numbers
- Write protection
 - Software write protection applicable to every 64KB sector via volatile lock bit
 - Hardware write protection: protected area size defined by five nonvolatile bits (BP0, BP1, BP2, BP3, and TB)
 - Additional smart protections, available upon request
- Electronic signature
 - JEDEC-standard 2-byte signature (BA20h)
 - Unique ID code (UID): 17 read-only bytes, including: Two additional extended device ID bytes to identify device factory options; and customized factory data (14 bytes)
- Minimum 100,000 ERASE cycles per sector
- More than 20 years data retention

Options	Marking
<ul style="list-style-type: none"> • Packages <ul style="list-style-type: none"> T-PBGA-24b05/6mm x 8mm (also known as TBGA25), with Sn63Pb37 ball metallurgy 	12
<ul style="list-style-type: none"> • Temperature Ranges <ul style="list-style-type: none"> Industrial (-40°C to 85°C) Automotive (-40°C to 125°C) 	IT AT

AS9100 Rev. C REGISTERED

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