

SANYO Serial Flash Memory

Many more advantages available with these serial flash memory devices!

---- NOR-type flash memory with serial interface ----

Ultra-miniaturization, which proved difficult with parallel flash memory, can be achieved with ease!

Small and Thin Packages with Very Few Pins

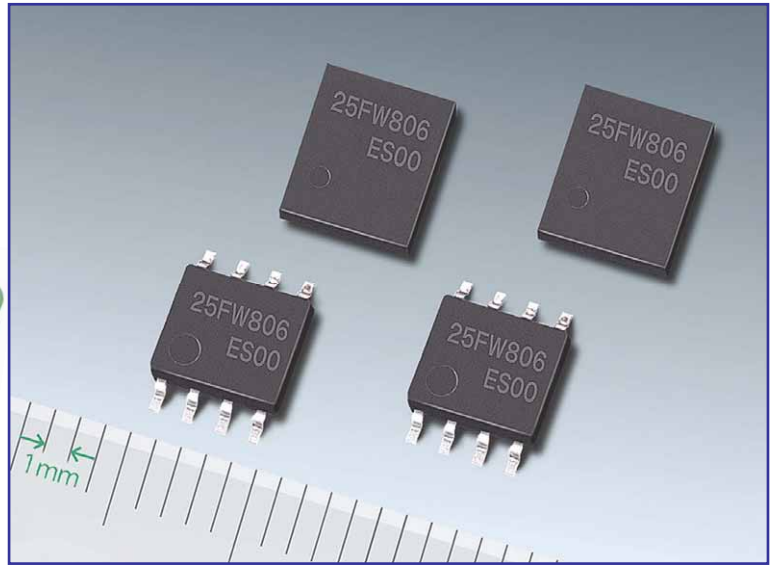
From 512K to 8M bits
SPI NOR-type flash memory

Use these miniature packages with their small number of pins in

hard disk drives, DVD drives, small-sized portable devices, Game machines, and

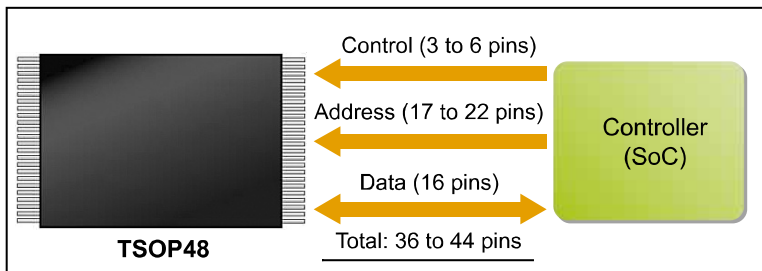
many other different applications to:

Save mounting space!
Make the finished products even smaller!

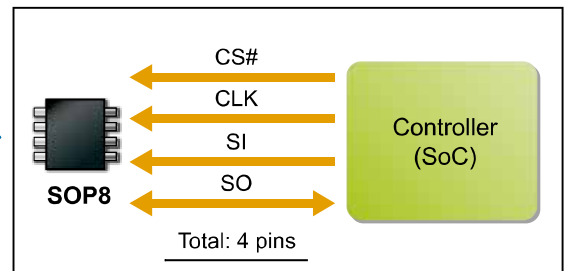


Function and Pin Number Comparison between Parallel and Serial Flash Memory

Parallel Flash Memory



Serial Flash Memory



Increasingly Smaller Mounting Footprints

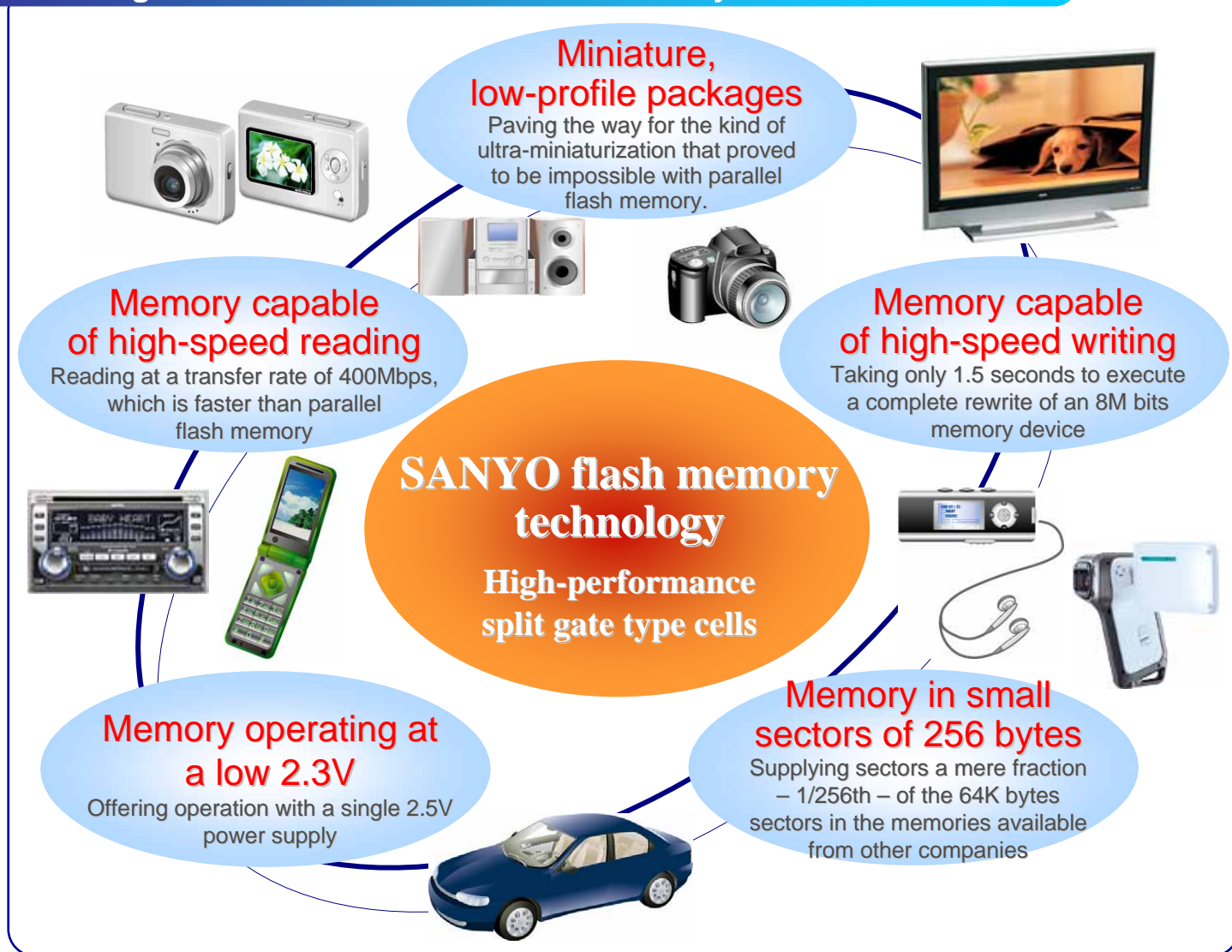
Package sizes have now been drastically reduced compared to conventional serial flash memory devices (SOP8).

* Actual sizes shown for comparison purposes



* Flash products are licensed from Silicon Storage Technology, Inc., (USA), and manufactured and sold by SANYO Semiconductor Co., Ltd.

Evolving World of SANYO Serial Flash Memory



Specifications

- Supply voltage range : 2.3V to 3.6V
- Maximum operating clock frequency : 50MHz [SPI bus]
- Operating temperature range : 0°C to +70°C (–40°C to +80°C supported optionally)
- Interface : SPI serial interface
- Page program time : Standard 0.3ms, Max 0.5ms (high-speed writing memory device)
- Sector erase time : Standard 100ms, Max 400ms
Chip erase time : Standard 0.25s, Max 3s (8M bits memory device)
- Data read speed : 400Mbps at SCK 50MHz (high-speed reading memory device)
: 50Mbps at SCK 50MHz (standard memory device)
- Sector size : 256bytes (ultra small sectors), 4K bytes (small sectors), 64K bytes (sectors) supported