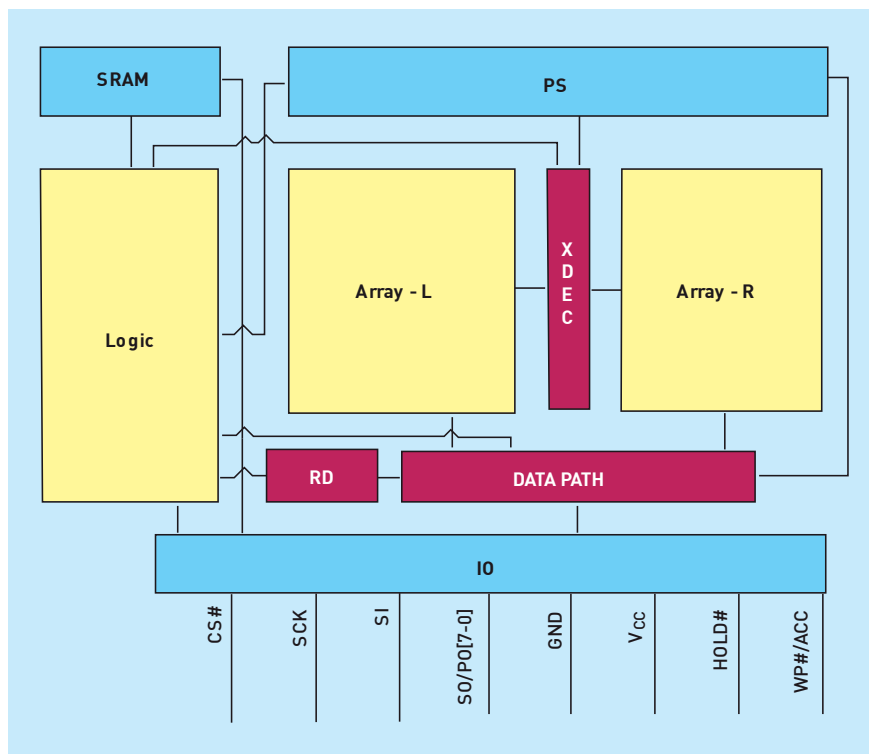


S25FL128
samples from:
€ 4.64

S25FL128P

128Mb 3V Flash with 104MHz SPI

Massimo Bertoli, Silica Italy



The S25FL128P is a 3.0V (2.7V to 3.6V), single-power-supply 128Mbit Flash memory device. It's the best in class in the market with an SPI clock speed of 104MHz.

The device consists of 64 sectors of 256KB memory or 256 sectors of 64KB memory in order to deliver complete software management compatibility. The memory can be programmed 1 to 256 bytes at a time, using the Page Program command.

The device supports Sector Erase and Bulk Erase commands. It allows permanent software protection using the W# pin and dedicated protection bits.

The 128Mb MirrorBit SPI device maintains packages with consistent pinouts - the Universal Footprint - that allow users to migrate from lower to higher density serial Flash memory without having to alter board layouts.

The Universal Footprint gives manufacturers the efficiency to develop solutions based on a single platform and leverage their hardware and software designs across multiple product lines, quickening their time-to-market with innovative solutions. The supported packages are the S016 (300mil) and the WSON8 (6x8mm).

Key Features

- 104MHz clock rate
- Single-power-supply
- Fast page programming time 1.2ms
- 64 or 256KB sector memory options
- Memory protection
- 100,000 Cycling endurance.
- Universal footprint from 16...128Mbit
- Packages available S016 (300mil) and WSON8 (6x8mm)
- Power Down mode (1.5µA typical)

Key Applications

- PC BIOS
- Networking equipment
- Hi-end Printers
- Set top box
- PC Peripherals
- Portable devices and PDA
- Xilinx FPGA configuration
- SOPC applications

Key Design Tips

Driver and software:

- The Low Level Driver (LLD) is a production-grade driver toolbox that manages command initiation and polling operations for the full range of Spansion memory devices:
- Download: http://www.spansion.com/flash_memory_products/support/drivers_software/index.html
- Application note: Spansion SPI FLASH Pin-out & Migration Path http://www.spansion.com/application_notes/spi_migration_an_a0_e.pdf

Service available or already delivered T&R from Manufacturer.
Tapes are available, but not stocked at Avnet Logistics due to low demand.
Device supported by or programming equipment, but the socket for this package must be provided by customer.

P/N	Package	Programming	Taping & Reeling	Marking
S25FL128P0XMF1011				
S25FL128P0XMF1001				

AMPLIFIERS
CONNECTIVITY, COMMUNICATION & INTERFACE ICs
DATA CONVERTER ICs
DIGITAL SIGNAL PROCESSORS
DISCRETES
MEMORIES
MICRO-CONTROLLERS & -PROCESSORS
OPERATING SYSTEMS
OPTOELECTRONICS & DISPLAYS
POWER MANAGEMENT ICs
PROGRAMMABLE LOGIC DEVICES
TOOLS & SERVICES