



SPI Flash:

A Complete Offering from 256Kb to 128Mb

IS25xxx Series of High Performance Multi-I/O Flash

ISSI's Industrial and Automotive grade series of Multi-I/O Flash memories feature the popular Serial Peripheral Interface (SPI). The IS25xxx family offers high performance, long term support, and reliability for all your mission critical applications.

The IS25xxx family is offered in 2.5/3V and 1.8V devices. The IS25LQ/WQ family supports SPI, Dual SPI, Quad SPI, Dual-I/O SPI, and Quad I/O SPI. These high performance parts support 104MHz, an equivalent 416MHz [52MBytes/sec], quadrupling standard SPI throughputs.

The latest family, IS25LPxxx, continues to builds upon the success of the IS25LQ/WQ family by introducing leading edge features such as DTR (double transfer rate), SFDP, and the popular 2 cycle instruction input [QPI].

The IS25LPxxx family increases performance to 133MHz and offers a DTR option that supports 66MHz, providing an equivalent 532Mb/s [66MBytes/sec] of read throughput.

The inherent advantages of ISSI's Multi-I/O SPI Flash offers increased throughput to enable XIP operation and can offer improved boot time for code shadowing applications. The low pin count and industry standard packages enable seamless density migration and flexibility from 256Kbit to 256Mbit.

Applications:

- Instrument Clusters
- Infotainment consoles
- Smart TV STB
- HDD
- Printers
- Gaming
- Industrial Controls
- Medical Devices
- Military & Aerospace

- · Wireless Access Points
- 4G LTE Base Stations
- Routers & Switches
- Home Networking
- Energy Smart Grid Management
- Automotive Control Systems
- Automotive Infotainment Telematics

► Multi-I/O QSPI Family: IS25LP/LQ/WQ

- Low Power Consumption
- Freq: 104MHz burst read single/dual/quad & Multi-IO (Up to 133MHz in LP family)
- Enhanced Protection Features
 - -One Time Programmable Array (OTP)
 - -Protection at all time (Software/Hardware protection)
- DTR Options Available (IS25LPxxx)
- Data Retention: Min 20 years after 100K cycles

Automotive Certified

Automotive industry's rich innovation of Electronics such as infotainment, ADAS, navigation, digital console, speech recognition, advanced diagnostics and other emerging segments require automotive grade flash memory.

ISSI's serial flash products are now AEC-Q100 and TS16949 compliant.

► ISSI Flash Portfolio

256K	512K	1M	2M	4M	8M	16M	32M	64M	128M	256M	512M	1G
				•	•			•		•		•
	•	•	•	•	•	•	•	•	•	•		•
512K	1M	4M	32M	64M	128M	256M	512M	1G				
•			*1									
				*1,*2	*2	*2	•	•				
				•	•	•	•	•				
1G	2G	4G	8G									
*3	*3	*3	*4									
*3	*3	*3	*4									
Istrial/Automotive Temperature, Long Term Support, Leaded/Lead Free FUS ■ Production ■ Roadmap ■ Under Consideration												
	1G *3 rature, Locaction	1G 2G *3 *3 *3 *3 rature, Long Term	1G 2G 4G 1G 2G 4G 13 *3 *3 *3 rature, Long Term Support	1G 2G 4G 8G 1 3 4 4 4 4 4 5 5 1 5 1 2 4 5 1 5 1 2 6 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	512K 1M 4M 32M 64M 1	512K 1M 4M 32M 64M 128M 512K 1M 4M 32M 64M 128M 1G 2G 4G 8G 13 *3 *3 *3 *4 *4 *4 *** ***ature, Long Term Support, Leaded/Lead Free action Roadmap	512K 1M 4M 32M 64M 128M 256M 1	512K 1M 4M 32M 64M 128M 256M 512M 1G 2G 4G 8G 1G 2G 4G 8G 1 3 3 3 3 3 44 Trature, Long Term Support, Leaded/Lead Free Inction Roadmap Under Consideral	512K 1M 4M 32M 64M 128M 256M 512M 1G 1	512K 1M 4M 32M 64M 128M 256M 512M 1G 1	512K 1M 4M 32M 64M 128M 256M 512M 1G 1	512K 1M 4M 32M 64M 128M 256M 512M 1G 1