



Synchronous SRAMs

**Long-term Support, Continuous Investment,
Industrial Temperature Support**

ISSI's Standard Synchronous SRAM and No-Wait State SRAM offers wide range of density, configuration, and packaging options to support automotive, industrial and networking applications. In addition, ISSI's QUAD/QUADP and DDR-II/DDR-IIP Synchronous SRAM family [compatible with QDR II™] offers high-density, fast access and high frequency memory requirements.

► Features

Long Term Support

- ISSI is committed to provide long-term support for all our Synchronous SRAMs, including QUAD and DDR-II products.

Industrial/Automotive Temperature Support

- Standard Synchronous SRAMs and No-Wait State SRAMs: Automotive Temperature and Industrial Temperature Ranges
- QUAD/QUADP/DDR-II/DDR-IIP: Industrial temperature support

Leaded/Lead Free

- ISSI continues to provide support for leaded and lead-free solutions, especially BGA packages.

Flexible Manufacturing Support

- We can support high mix/low volume requirements

► New Product Development

- 18Mb/36Mb/72Mb Standard and No-Wait [ZBT] Synchronous SRAMs and QUAD/DDR-II SRAMs based on 65nm technology in production now.
- 55nm based QUAD/DDR-II Synchronous SRAMs are in development now



► Broad Synchronous SRAM Product Offering

Standard and No-Wait [ZBT] Synchronous SRAMs

- Pipeline, Flowthrough
- 2Mb, 4Mb, 9Mb, 18Mb, 36Mb, 72Mb
- x18, x36, x72
- 1.8V, 2.5V, 3.3V
- Automotive & Industrial Temperature support
- 100-TQFP, 119-BGA, 165-BGA, 209-BGA
- Leaded/Lead-free packages
- Target speed up to 250Mhz

QUAD Synchronous SRAM

- QUAD [QDR II™ Compatible], DDR-II
- QUADP [QDR II+™ Compatible], DDR-IIP
- 18Mb, 36Mb, 72Mb
- x18, x36
- Burst of 2 and Burst of 4
- Commercial and Industrial Temperature support
- 165-BGA available in both 13x15mm and 15x17mm
- Leaded/Lead-free packages
- Target speed up to 400MHz for QUAD and DDR-II
- Target speed up to 550Mhz for QUADP and DDR-IIP

► Applications

- Engine control
- Industrial automation applications
- Switches, Routers, other communication applications

High Speed Memory	2M	4M	9M	18M	36M	72M	144M
Standard/No-Wait[ZBT] Synchronous	■	■ ECC	■	■	■	■	
QUAD [Compatible to QDR-II™]				■	■	■	■
DDRII				■	■	■	■
QUADP/DDR-IIP [Compatible to QDR-II+™]				■	■	■	■
Industrial/Automotive Temperature, Long Term Support, Leaded/Lead Free							
STATUS	■ Production	■ Roadmap	■ Under Consideration				