



18Mb, 36Mb and 72Mb QUAD/QUADP AND DDR-II/DDR-IIP SYNCHRONOUS SRAM FAMILY



QDR II™ EQUIVALENT SYNCHRONOUS SRAM

ISSI's QUAD/QUADP AND DDR-II/DDR-IIP Synchronous SRAM family offers additional SRAM solutions for high-density, fast access and high frequency memory requirements. This product family is compatible with QDR II™. ISSI is committed to provide our customers with long term product support. ISSI has long known to be the supplier for product longevity and we continue to excel in this area. Our products are designed with the best fit latest process technology for better lead time and availability, and for commitment to the long term support we promise to our customers. In addition, our quality and reliability will meet all stringent requirements of different applications.

FEATURES

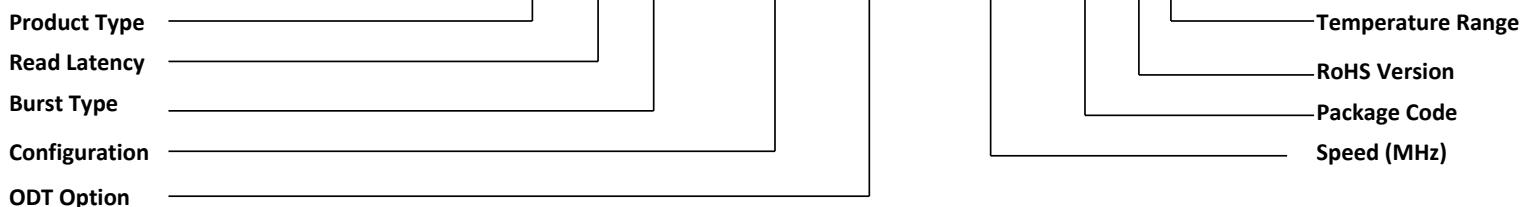
- In production NOW – 18Mb, 36Mb 72Mb
- Configurations - x18 and x36
- Supports clock frequencies up to 500MHz
- Available in Burst Lengths 2 and 4 options, with and without ODT
- 165-BGA package in commercial and industrial temperature range, RoHS 5/6 and RoHS 6/6 compliant

APPLICATIONS

- Network Switches
- Routers
- Other communication applications

PRODUCT OFFERINGS

IS61 QDP 2 B4 4M18 A1 – 333 M3 L I



Product Type
 QD = QUAD
 QDP = QUADP
 DD = DDR-II, Common I/O
 DDP = DDR-IIP, Common I/O

Configuration
 51236 = 512Kb x 36
 1M18 = 1Mb x 18
 1M36 = 1Mb x 36
 2M18 = 2Mb x 18
 2M36 = 2Mb x 36
 4M18 = 4Mb x 18

Read Latency (RL):
For QUAD/DDR-II devices:
 Blank = 1.5 clock cycles
For QUADP/DDR-IIP devices:
 Blank = 2.5 clock cycles
 2 = 2.0 clock cycles

Burst Type:
 B2 = Burst 2
 B4 = Burst 4

ODT Option (if supported):
 A: No ODT
 A1: ODT Option 1
 If ODT = HIGH or floating, a high range termination resistance is selected.
 If ODT = LOW, a low range termination resistance is selected.
 A2: ODT Option 2
 If ODT = HIGH, a high range termination resistance is selected.
 If ODT = LOW or floating, ODT is disabled

Speed
 Example: 250 = 250MHz

Package Code
 B4 = 165 ball BGA (13 x 15 mm)
 M3 = 165-ball BGA (15 x 17 mm)

RoHS Version
 Blank = Leaded
 L = Lead-free

Temperature Range
 Blank = Commercial (0 °C to 70°C)
 I = Industrial (-40 °C to 85 °C)



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QUAD/QUADP AND DDR-II /DDR-IIP is fully compatible with the following manufacturers

Manufacturer	Manufacturer Part Number
Cypress	CY7C13xx
	CY7C141x
	CY7C11xx
	CY7C12xx
	CY7C15xx
GSI	GS8182Dxx
	GS8342Dxx
	GS8342Qxx
	GS8672Dxx
	GS8672Qxx
	GS8662Dxx
	GS8662Qxx
Samsung	K7S16xxxx
	K7S32xxxx
	K7Q16xxxx
	K7R16xxxx
	K7R32xxxx
	K7R64xxxx

Manufacturer	Manufacturer Part Number
Samsung	K7K32xx
	K7K16xx
	K7I16xxxx
	K7I32xxxx
	K7I64xxxx
Renesas	uPD4416x series
	uPD4618x series
	uPD4432x series
	uPD4636x series
	R1QXA36 series
	uPD4464x36x series
	R1QxA7236 series
	uPD4464x18 series
	R1QxA7218 series
	uPD44645x092 series
	R1Q2A7209 series
uPD4464x09x series	
uPD4464x09x series	

For more detailed cross reference information or any questions regarding this product family, please contact sram@issi.com