



ISSI's New 5V - 4Mb SRAM

The new 4Mb SRAM has ramped up into production. The strategic aspect of this new product introduction is our long-term commitment to the 5V legacy SRAM product family. With this 5V 4Mb introduction, ISSI now has a broad portfolio of 5V SRAMs ranging from 256Kb to 4Mb.



	IS61C25616AL	IS61C25616AS	IS61C5128AL	IS61C5128AS
Technology	0.13u, 6T	0.13u, 6T	0.13u, 6T	0.13u, 6T
Standby Current (Typ)	2mA	0.2mA	2mA	0.2mA
Operating Current (Typ)	30mA	15mA	30mA	15mA
Packaging	44-Pin TSOP-II and SOJ	44-Pin TSOP-II	36-Pin SOJ	32-Pin SOP and TSOP-II
Speed	10ns	25ns	10ns	25ns
Temperature Support	Industrial Automotive	Industrial Automotive	Industrial Automotive	Industrial Automotive
Lead-free and Non Lead-free	Yes	Yes	Yes	Yes
Status	Sampling	Sampling	Sampling	Sampling

Applications:

The 5V 4Mb is used in a variety of applications including Industrial, Automotive, Telecom, and Networking.

Additional 5V Asynchronous SRAMs

High-Speed Asynchronous SRAM

Den	Org	Part No.	Vcc	Speeds (ns)	Pkg (#Pins)	Status	Comment
64K	8Kx8	IS61C64AL	5V	10	SOJ(28),TSOP1(28)	Prod	Lead-free
256K	32Kx8	IS61C256AL	5V	10,12	SOJ(28),TSOP1(28)	Prod	Lead-free
512K	32Kx16	IS61C3216AL	5V	12	SOJ(44),TSOP2(44)	Prod	Lead-free
1M	64Kx16	IS61C6416AL	5V	12	SOJ(44),TSOP2(44)	Prod	Lead-free
	128Kx8	IS61C1024AL	5V	12	SOJ(32.3), SOJ(32.4), TSOP1(32), sTSOP1(32)	Prod	Lead-free

Low Power Asynchronous SRAM

Den	Org	Part No.	Vcc	Speeds (ns)	Pkg (#Pins)	Status	Comment
256K	32Kx8	IS62C256AL	5V	24,25	SOP(28), TSOP1(28)	Prod	Lead-free
	128Kx8	IS62C1024AL	5V	35	SOP(32), TSOP1(32)	Prod	Lead-free

IS61C25616AL/AS IS64C25616AL/AS



256K x 16 HIGH-SPEED CMOS STATIC RAM

FEATURES

HIGH SPEED: (IS61/64C25616AL)

- High-speed access time: 10ns, 12 ns
- Low Active Power: 150 mW (typical)
- Low Standby Power: 10 mW (typical)
CMOS standby

LOW POWER: (IS61/64C25616AS)

- High-speed access time: 25 ns
- Low Active Power: 75 mW (typical)
- Low Standby Power: 1 mW (typical)
CMOS standby
- TTL compatible interface levels
- Single 5V ± 10% power supply
- Fully static operation: no clock or refresh required
- Available in 44-pin SOJ package and 44-pin TSOP (Type II)
- Commercial, Industrial and Automotive temperature ranges available
- Lead-free available

Cross Reference Guide			Package Codes	
			44-pin TSOP-II	44-Pin SOJ (400-mil)
CY7C1041B	IS61C25616AL	Cypress	Z or ZX	V or VX
CY7C1041D	IS61C25616AL	Cypress	ZS or ZSX	V or VX
CY62146E	IS61C25616AS	Cypress	ZS or ZSX	
AS7C4098A	IS61C25616AL	Alliance	T	J
K6R4016C1D	IS61C25616AL	Samsung	T, U (Lead Free)	J, K (Lead Free)
K6X4016C3F	IS61C25616AS	Samsung	T, U (Lead Free)	
K6T4016C3C	IS61C25616AS	Samsung	T, U (Lead Free)	
K6T4016C3B	IS61C25616AS	Samsung	T, U (Lead Free)	
μPD444016	IS61C25616AL	NEC	G5	LE
554161FTL	IS61C25616AL	Toshiba	This is a 54 pin TSOP-II	
55NEM216AFTN	IS61C25616AL	Toshiba	Different	
TC554161	IS61C25616AL	Toshiba	Different	
R1RP0416D	IS61C25616AL	Renesas	SB	GE
HM6216255HC	IS61C25616AL	Renesas	TTI	JPI or LJP

IS61C5128AL/AS IS64C5128AL/AS

512K x 8 HIGH-SPEED CMOS STATIC RAM

FEATURES

HIGH SPEED: (IS61/64C5128AL)

- High-speed access time: 10ns, 12 ns
- Low Active Power: 150 mW (typical)
- Low Standby Power: 10 mW (typical)
CMOS standby

LOW POWER: (IS61/64C5128AS)

- High-speed access time: 25ns
- Low Active Power: 75 mW (typical)
- Low Standby Power: 1 mW (typical)
CMOS standby
- TTL compatible interface levels
- Single 5V ± 10% power supply
- Fully static operation: no clock or refresh required
- Available in 36-pin SOJ (400-mil), 32-pin sTSOP-I, 32-pin SOP, 44-pin TSOP-II and 32-pin TSOP-II packages
- Commercial, Industrial and Automotive temperature ranges available
- Lead-free available

Cross Reference Guide			Package Codes			
			44-pin TSOP-II	36-Pin SOJ (400-mil)	32-Pin SOP	32-Pin TSOP-II
CY7C1049B	IS61C5128AL	Cypress		V or VX		
CY7C1049D	IS61C5128AL	Cypress		V or VX		
CY62148E	IS61C5128AS	Cypress			SX	ZSX
AS7C4096A	IS61C5128AL	Alliance	T	J		
K6R4008C1D	IS61C5128AL	Samsung	T, U (Lead Free)	J, K (Lead Free)		
K6X4008C1F	IS61C5128AS	Samsung			G	V or U
K6T4008C1C	IS61C5128AS	Samsung			G	V or U
K6T4008C1B	IS61C5128AS	Samsung			G	V or U
μPD4440008	IS61C5128AL	NEC		LE		
554161FTL	IS61C5128AL	Toshiba	Different			
55NEM208AFP	IS61C5128AL	Toshiba	Different			
TC554001	IS61C5128AS	Toshiba			AF	AFT
R1RP0408D	IS61C5128AL	Renesas		GE		
HM628511HC	IS61C5128AL	Renesas		JPI or LJP		
R1LP0408C	IS61C5128AS	Renesas			SP	SB