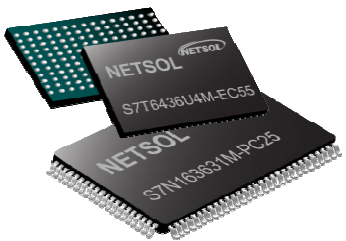
NETSOL Product List

- **SLC NAND Flash**

- **Asynchronous Low Power SRAM**
- **Asynchronous Fast SRAM**

- **Synchronous SRAM**
- **DDR SRAM**
- **QDR SRAM**



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NETSOL Product List

◈ SLC NAND Flash

Density	Org.	Part Number	VDD(V)	Page Size	Speed(ns)	ECC	Package	Availability
1G bit	128Mx8	S8F1G08U0A-YIB0	2.7~3.6	2K+128	25	1	48TSOP-I	Now
		S8F1G08S0B-XIB0 S8F1G08S0B-BIB0	1.7~1.95	2K+128	45	4	48FBGA 63FBGA	Now
2G bit	256Mx8	S8F2G08U0A-YIB0 S8F2G08U0A-XIB0 S8F2G08U0A-BIB0	2.7~3.6	2K+128	25	4	48TSOP-I 48FBGA 63FBGA	Now
		S8F2G08S0A-YIB0 S8F2G08S0A-XIB0 S8F2G08S0A-BIB0	1.7~1.95	2K+128	45	4	48TSOP-I 48FBGA 63FBGA	Now
4G bit	512Mx8	S8F4G08U0M-YIB0 S8F4G08U0M-XIB0 S8F4G08U0M-BIB0	2.7~3.6	2K+128	20	4	48TSOP-I 48FBGA 63FBGA	Now
		S8F4G08UAM-YIB0 S8F4G08UAM-XIB0 S8F4G08UAM-BIB0	2.7~3.6	4K+256	20	4	48TSOP-I 48FBGA 63FBGA	Now
8G Bit	1Gx8	S8F8G08UAM-YIB0	2.7~3.6	4K+256	25	4	48TSOP-I	TBD

* Part Number : S8FXXXXXXX-ptB0

1. p : Package type
   Y=48TSOP-I, X= 48FBGA , B= 63FBGA
2. t : Temperature
   C=Commercial Temperature (0~70C), I = Industrial Temperature (-40~85C),

NETSOL Product List

◈ Asynchronous Low Power SRAM

Density	Org.	Part Number	VDD(V)	C/S option	Speed (ns)	Package	Availability
1Mbit	64Kx16	S6L1016W1M	2.3~3.6	1 C/S	45/55/70ns	44TSOP2, 48FBGA	Now
		S6L1016C1M	4.5~5.5	1 C/S		44TSOP2, 48FBGA	Now
	128Kx8	S6L1008W2M	2.3~3.6	2 C/S	45/55/70ns	32sTSOP1, 32SOP	Now
		S6L1008C2M	4.5~5.5	2 C/S			Now
2M bit	128Kx16	S6L2016W1M	2.3~3.6	1 C/S	45/55/70ns	44TSOP2,48FBGA	Now
		S6L2016W2M	2.3~3.6	2 C/S		48FBGA	Now
		S6L2016C1M	4.5~5.5	1 C/S		44TSOP2	Now
	256Kx8	S6L2008W1M	2.3~3.6	1 C/S	45/55/70ns	36FBGA	Now
		S6L2008W2M	2.3~3.6	2 C/S		32sTSOP1, 32SOP	Now
		S6L2008C2M	4.5~5.5	2 C/S			Now
4M bit	256Kx16	S6L4016W1M	2.3~3.6	1 C/S	45/55/70ns	44TSOP2, 48FBGA	Now
		S6L4016W2M	2.3~3.6	2 C/S		44TSOP2, 48FBGA	Now
		S6L4016C1M	4.5~5.5	1 C/S		44TSOP2	Now
		S6L4016C2M	4.5~5.5	2 C/S		44TSOP2	Now
	512Kx8	S6L4008W1M	2.3~3.6	1 C/S	45/55/70ns	32sTSOP1, 32TSOP2, 32SOP	Now
		S6L4008C1M	4.5~5.5	1 C/S			Now
8M bit	512Kx16	S6L8016W1M	2.3~3.6	1 C/S	45/55/70ns	44TSOP2, 48FBGA	Now
		S6L8016W2M	2.3~3.6	2 C/S		44TSOP2, 48FBGA	Now
		S6L8016C1M	4.5~5.5	1 C/S		44TSOP2, 48FBGA	Now
		S6L8016C2M	4.5~5.5	2 C/S		48FBGA	Now
	1Mx8	S6L8008W2M	2.3~3.6	2 C/S	45/55/70ns	44TSOP2, 48FBGA	Now
		S6L8008C2M	4.5~5.5	2 C/S		44TSOP2, 48FBGA	Now

* Part Number : S6LXXXXXXX-ptss

1. p : Package type
   U=44TSOP-II, X=FBGA, L=32sTSOP-I, T=32TSOP-I, B=28/32SOP, N=32TSOP-II, Y=48TSOP-I
2. t : Temperature
   I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. ss : Speed
   45 = 45ns, 55=55ns, 70=70ns

NETSOL Product List

◈ Asynchronous FAST SRAM

Density	Org.	Part Number	Vdd(V)	Access Time	Package	Availability
1M bit	64Kx16	S6R1016W1A	1.65~3.6	8/10/12/15ns	44TSOP2 48FBGA	Now
		S6R1016V1A	3.3	8/10ns		Now
		S6R1016C1A	5.0	10ns		Now
	128Kx8	S6R1008W1A	1.65~3.6	8/10/12/15ns	32sTSOP1	Now
		S6R1008V1A	3.3	8/10ns		Now
		S6R1008C1A	5.0	10ns		Now
2M bit	128Kx16	S6R2016W1A	1.65~3.6	8/10/12/15ns	44TSOP2 48FBGA	Now
		S6R2016V1A	3.3	8/10ns		Now
		S6R2016C1A	5.0	10ns		Now
	256Kx8	S6R2008W1A	1.65~3.6	8/10/12/15ns	44TSOP2 36FBGA	Now
		S6R2008V1A	3.3	8/10ns		Now
		S6R2008C1A	5.0	10ns		Now
4M bit	256Kx16	S6R4016W1A	1.65~3.6	8/10/12/15ns	44TSOP2 48FBGA	Now
		S6R4016V1A	3.3	8/10ns		Now
		S6R4016C1A	5.0	10ns		Now
	512Kx8	S6R4008W1A	1.65~3.6	8/10/12/15ns	44TSOP2 36FBGA	Now
		S6R4008V1A	3.3	8/10ns		Now
		S6R4008C1A	5.0	10ns		Now
8M bit	512Kx16	S6R8016W1A	1.65~3.6	8/10/12/15ns	44TSOP2 48FBGA	Now
		S6R8016C1A	5.0	10ns		Now
	1Mx8	S6R8008W1A	1.65~3.6	8/10/12/15ns	44TSOP2 48FBGA	Now
		S6R8008C1A	5.0	10ns		Now
16M bit	1Mx16	S6R1616W1M	1.65~3.6	8/10/12/15ns	48TSOP1 48FBGA	Now
		S6R1616V1M	3.3	8/10ns		Now
		S6R1616C1M	5.0	10ns		Now
	2Mx8	S6R1608W1M	1.65~3.6	8/10/12/15ns	44TSOP2 48FBGA	Now
		S6R1608V1M	3.3	8/10ns		Now
		S6R1608C1M	5.0	10ns		Now
32M bit	2Mx16	S6R3216W1M	1.65~3.6	8/10/12/15ns	48FBGA	Now
	4Mx8	S6R3208W1M	1.65~3.6	8/10/12/15ns		Now

* Part Number : S6RXXXXXXX-ptss

1. p : Package type
   U=44TSOP-II, X=FBGA, L=32sTSOP-I, Y=48TSOP-I
2. t : Temperature
   I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. ss : Speed
   08 = 8ns, 10=10ns, 12=12ns, 15=15ns

NETSOL Product List

◈ Synchronous SRAM

(1) Synchronous Pipe Burst SRAM

Density	Org.	Part Number	Operating	VDD(V)	tCYC	Access Time	Package	Availability
4M bit	128Kx36	S7A403630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	256Kx18	S7A401830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
9M bit	256Kx36	S7A803630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	512Kx18	S7A801830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
18M bit	512Kx36	S7A163630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	1Mx18	S7A161830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
36M bit	1Mx36	S7A323630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	2Mx18	S7A321830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
72M bit	2Mx36	S7A643630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	4Mx18	S7A641830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now

(2) Synchronous Flow Through SRAM

Density	Org.	Part Number	Operating	VDD(V)	tCYC	Access Time	Package	Availability
4M bit	128Kx36	S7B403635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	256Kx18	S7B401835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
9M bit	256Kx36	S7B803635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	512Kx18	S7B801835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
18M bit	512Kx36	S7B163635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	1Mx18	S7B161835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
36M bit	1Mx36	S7B323635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	2Mx18	S7B321835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100LQFP	Now
72M bit	2Mx36	S7B643635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	4Mx18	S7B641835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100LQFP	Now

* Part Number : S7XXXXXXXX-ptss

1. p : Package type
   P=TQFP, E=FBGA
2. t : Temperature
   I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. ss : Speed
   60/65/70/75/80/90/10/12 (Flow Through)
   =6.0/6.5/7.0/7.5/8.0/9.0/10/12ns
   13/16/20/25/30/33/40/45/50/55/60/65 (Pipe Burst)
   =133/166/200/250/300/330/400/450/500/550/600/650MHz

NETSOL Product List

◈ Synchronous SRAM

(3) NT Pipe Burst SRAM

Density	Org.	Part Number	Operating	VDD(V)	tCYC	Access Time	Package	Availability
4M bit	128Kx36	S7N403631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	256Kx18	S7N401831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
9M bit	256Kx36	S7N803631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
	512Kx18	S7N801831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	Now
18M bit	512Kx36	S7N163631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP 165FBGA	Now
	1Mx18	S7N161831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns		Now
36M bit	1Mx36	S7N323631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP 165FBGA	Now
	2Mx18	S7N321831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns		Now
72M bit	2Mx36	S7N643631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP 165FBGA	Now
	4Mx18	S7N641831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns		Now

(4) NT Flow Through SRAM

Density	Org.	Part Number	Operating	VDD(V)	tCYC	Access Time	Package	Availability
4M bit	128Kx36	S7M403635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	256Kx18	S7M401835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
9M bit	256Kx36	S7M803635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	512Kx18	S7M801835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
18M bit	512Kx36	S7M163635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	1Mx18	S7M161835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
36M bit	1Mx36	S7M323635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	2Mx18	S7M321835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
72M bit	2Mx36	S7M643635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now
	4Mx18	S7M641835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	Now

* Part Number : S7XXXXXXXX-ptss

1. p : Package type
   P=TQFP, E=FBGA
2. t : Temperature
   I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. ss : Speed
   60/65/70/75/80/90/10/12 (Flow Through)
   =6.0/6.5/7.0/7.5/8.0/9.0/10/12ns
   13/16/20/25/30/33/40/45/50/55/60/65 (Pipe Burst)
   =133/166/200/250/300/330/400/450/500/550/600/650MHz

NETSOL Product List

◈ DDR SRAM

Density	Org.	Part Number	Operating Mode	VDD (V)	Cycle time (MHz)	Burst Length	Clock Latency	Package	Avail-ability
18M bit	512Kx36(1Mx18)	S7I1636(18)82M	DDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	512Kx36(1Mx18)	S7K1636(18)T2M	DDR II+	1.8	450,400,333	2	2	165FBGA	Now
	512Kx36(1Mx18)	S7K1636(18)U2M	DDR II+	1.8	550,450,400	2	2.5	165FBGA	Now
	512Kx36(1Mx18)	S7L1636(18)T2M	DDR II+, ODT	1.8	450,400,333	2	2	165FBGA	Now
	512Kx36(1Mx18)	S7L1636(18)U2M	DDR II+, ODT	1.8	550,450,400	2	2.5	165FBGA	Now
	512Kx36(1Mx18)	S7J1636(18)82M	DDR II, SIO	1.8	333,300,250	2	1.5	165FBGA	Now
	512Kx36(1Mx18)	S7I1636(18)84M	DDR II	1.8	333,300,250	4	1.5	165FBGA	Now
36M bit	1Mx36(2Mx18)	S7I3236(18)82M	DDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	1Mx36(2Mx18)	S7K3236(18)T2M	DDR II+	1.8	450,400,333	2	2	165FBGA	Now
	1Mx36(2Mx18)	S7K3236(18)U2M	DDR II+	1.8	550,450,400	2	2.5	165FBGA	Now
	1Mx36(2Mx18)	S7L3236(18)T2M	DDR II+, ODT	1.8	450,400,333	2	2	165FBGA	Now
	1Mx36(2Mx18)	S7L3236(18)U2M	DDR II+, ODT	1.8	550,450,400	2	2.5	165FBGA	Now
	1Mx36(2Mx18)	S7I3236(18)84M	DDR II	1.8	333,300,250	4	1.5	165FBGA	Now
	1Mx36(2Mx18)	S7J3236(18)82M	DDR II, SIO	1.8	333,300,250	2	1.5	165FBGA	Now
72M bit	2Mx36(4Mx18)	S7I6436(18)82M	DDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	2Mx36(4Mx18)	S7K6436(18)T2M	DDR II+	1.8	450,400,333	2	2	165FBGA	Now
	2Mx36(4Mx18)	S7K6436(18)U2M	DDR II+	1.8	550,450,400	2	2.5	165FBGA	Now
	2Mx36(4Mx18)	S7L6436(18)T2M	DDR II+, ODT	1.8	450,400,333	2	2	165FBGA	Now
	2Mx36(4Mx18)	S7L6436(18)U2M	DDR II+, ODT	1.8	550,450,400	2	2.5	165FBGA	Now
	2Mx36(4Mx18)	S7J6436(18)82M	DDR II, SIO	1.8	333,300,250	2	1.5	165FBGA	Now
	2Mx36(4Mx18)	S7I6436(18)84M	DDR II	1.8	333,300,250	4	1.5	165FBGA	Now

* Part Number : S7XXXXXXXX-Etss

1. E = 165FBGA
2. t : Temperature
   I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. ss : Speed
   13/16/20/25/30/33/40/45/50/55/60/65
   =133/166/200/250/300/330/400/450/500/550/600/650MHz

NETSOL Product List

◈ QDR SRAM

Density	Org.	Part Number	Operating Mode	VDD (V)	Cycle time (MHz)	Burst Len.	Clock Latency	Package	Avail-ability
18M bit	512Kx36(1Mx18)	S7Q1636(18)62M	QDR I	1.8~2.5	167	2	1	165FBGA	Now
	512Kx36(1Mx18)	S7R1636(18)82M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	512Kx36(1Mx18)	S7Q1636(18)64M	QDR I	1.8~2.5	167	4	1	165FBGA	Now
	512Kx36(1Mx18)	S7R1636(18)84M	QDR II	1.8	333,300,250	4	1.5	165FBGA	Now
	512Kx36(1Mx18)	S7S1636(18)T4M	QDR II+	1.8	450,400,333	4	2	165FBGA	Now
	512Kx36(1Mx18)	S7S1636(18)U4M	QDR II+	1.8	550,450,400	4	2.5	165FBGA	Now
	512Kx36(1Mx18)	S7T1636(18)T4M	QDR II+, ODT	1.8	450,400,333	4	2	165FBGA	Now
	512Kx36(1Mx18)	S7T1636(18)U4M	QDR II+, ODT	1.8	550,450,400	4	2.5	165FBGA	Now
36M bit	1Mx36(2Mx18)	S7R3236(18)82M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	4Mx9	S7R320982M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	1Mx36(2Mx18)	S7S3236(18)U2M	QDR II+	1.8	450,400,366	2	2.5	165FBGA	Now
	1Mx36(2Mx18)	S7R3236(18)84M	QDR II	1.8	333,300,250	4	1.5	165FBGA	Now
	4Mx9	S7R320984M	QDR II	1.8	333,300,250	4	1.5	165FBGA	Now
	1Mx36(2Mx18)	S7S3236(18)T4M	QDR II+	1.8	450,400,333	4	2	165FBGA	Now
	1Mx36(2Mx18)	S7S3236(18)U4M	QDR II+	1.8	550,450,400	4	2.5	165FBGA	Now
	1Mx36(2Mx18)	S7T3236(18)T4M	QDR II+, ODT	1.8	450,400,333	4	2	165FBGA	Now
	1Mx36(2Mx18)	S7T3236(18)U4M	QDR II+, ODT	1.8	550,450,400	4	2.5	165FBGA	Now
72M bit	2Mx36(4Mx18)	S7R6436(18)82M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	8Mx9	S7R640982M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	2Mx36(4Mx18)	S7S6436(18)U2M	QDR II+	1.8	450,400,366	2	2.5	165FBGA	Now
	2Mx36(4Mx18)	S7T6436(18)T2M	QDR II+, ODT	1.8	400,357,333	2	2	165FBGA	Now
	2Mx36(4Mx18)	S7R6436(18)84M	QDR II	1.8	333,300,250	4	1.5	165FBGA	Now
	2Mx36(4Mx18)	S7S6436(18)T4M	QDR II+	1.8	450,400,333	4	2	165FBGA	Now
	2Mx36(4Mx18)	S7S6436(18)U4M	QDR II+	1.8	550,450,400	4	2.5	165FBGA	Now
	2Mx36(4Mx18)	S7T6436(18)T4M	QDR II+, ODT	1.8	450,400,333	4	2	165FBGA	Now
	2Mx36(4Mx18)	S7T6436(18)U4M	QDR II+, ODT	1.8	550,450,400	4	2.5	165FBGA	Now
144M bit	4Mx36(8Mx18)	S7R4436(18)82M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	16Mx9	S7R440982M	QDR II	1.8	333,300,250	2	1.5	165FBGA	Now
	4Mx36(8Mx18)	S7S4436(18)U2M	QDR II+	1.8	450,400,366	2	2.5	165FBGA	Now
	4Mx36(8Mx18)	S7T4436(18)T2M	QDR II+, ODT	1.8	400,357,333	2	2	165FBGA	Now
	4Mx36(8Mx18)	S7R4436(18)84M	QDR II	1.8	333,300,250	4	1.5	165FBGA	Now
	4Mx36(8Mx18)	S7S4436(18)T4M	QDR II+	1.8	450,400,333	4	2	165FBGA	Now
	4Mx36(8Mx18)	S7S4436(18)U4M	QDR II+	1.8	550,450,400	4	2.5	165FBGA	Now
	4Mx36(8Mx18)	S7T4436(18)T4M	QDR II+, ODT	1.8	450,400,333	4	2	165FBGA	Now
	4Mx36(8Mx18)	S7T4436(18)U4M	QDR II+, ODT	1.8	550,450,400	4	2.5	165FBGA	Now

* Part Number : S7XXXXXXXX-Etss

1. E = 165FBGA
2. t : Temperature
   I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. ss : Speed
   13/16/20/25/30/33/40/45/50/55/60/65
   =133/166/200/250/300/330/400/450/500/550/600/650MHz

Leading technology, audacious dreams and caring persons

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