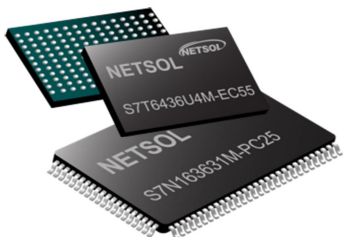




NETSOL Product List

- **Asynchronous Fast SRAM**
- **Asynchronous Low Power SRAM**
- **STT MRAM**
- **Synchronous SRAM**



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High Quality & High Performance Memory Provider

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	48FBGA	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 48FBGA	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 48FBGA	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

* Part Number : S6RXXXXXXXX-ptss

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

NETSOL Product List

◆ Asynchronous Low Power SRAM

Density	Org.	Part Number	VDD(V)	C/S option	Speed (ns)	Package	Availability
1M bit	64Kx16	S6L1016W1M	2.3~3.6	1 C/S	45/55/70ns	44TSOP2, 48FBGA	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
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
8M bit	512Kx16	S6L8016W1M	2.3~3.6	1 C/S	45/55/70ns	44TSOP2	Now
		S6L8016W2M	2.3~3.6	2 C/S		48FBGA	Now
	1Mx8	S6L8008W2M	2.3~3.6	2 C/S	45/55/70ns	44TSOP2, 48FBGA	Now

* Part Number : S6LXXXXXXXX-ptss

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

NETSOL Product List

◆ Parallel STT-MRAM

Density	Org.	Part Number	VDD(V)	Access Time	Package	Availability
1M bit	64Kx16	S3R1016V1M	2.7 ~ 3.6	70ns	44TSOP2 48FBGA	Customer Sample at Oct. 2022
	128Kx8	S3R1008V1M				
2M bit	128Kx16	S3R2016V1M	2.7 ~ 3.6	70ns	44TSOP2 48FBGA	
	256Kx8	S3R2008V1M				
4M bit	256Kx16	S3R4016V1M	2.7 ~ 3.6	70ns	44TSOP2 48FBGA	
	512Kx8	S3R4008V1M				
8M bit	512Kx16	S3R8016V1M	2.7 ~ 3.6	70ns	44TSOP2 48FBGA	
	1Mx8	S3R8008V1M				
16M bit	1Mx16	S3R1616V1M	2.7 ~ 3.6	70ns	54TSOP2 48FBGA	
	2Mx8	S3R1608V1M			44TSOP2 48FBGA	
32M bit	2Mx16	S3R3216V1M	2.7 ~ 3.6	70ns	54TSOP2 48FBGA	
	4Mx8	S3R3208V1M				

* Part Number : S3RXXXXXXXX-ptss

1. **p** : Package type
U=44TSOP2, P=54TSOP2, X=48FBGA
2. **t** : Temperature
I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. **ss** : Speed
70=70ns

NETSOL Product List

◆ Serial STT-MRAM

Density	Org.	Part Number	VDD(V)	Access Time	Package	Availability	
1M bit	QSPI	S3A1004V0M	2.7 ~ 3.6	108MHz	8WSN 24FBGA	Customer Sample at Oct. 2022	
		S3A1004R0M	1.71 ~ 2.0				
2M bit	QSPI	S3A2004V0M	2.7 ~ 3.6	108MHz	8WSN 24FBGA		
		S3A2004R0M	1.71 ~ 2.0				
4M bit	QSPI	S3A4004V0M	2.7 ~ 3.6	108MHz	8WSN 24FBGA		
		S3A4004R0M	1.71 ~ 2.0				
8M bit	QSPI	S3A8004V0M	2.7 ~ 3.6	108MHz	8WSN 24FBGA		
		S3A8004R0M	1.71 ~ 2.0				
16M bit	QSPI	S3A1604V0M	2.7 ~ 3.6	108MHz	8WSN 24FBGA		
		S3A1604R0M	1.71 ~ 2.0				
32M bit	QSPI	S3A3204V0M	2.7 ~ 3.6	108MHz	8WSN 24FBGA		Under consideration
		S3A3204R0M	1.71 ~ 2.0				

* Part Number : S3AXXXXXXXXX-ptss

1. **p** : Package type
J=8WSN, H=24FBGA
2. **t** : Temperature
I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
3. **ss** : Speed
1A=108MHz

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	Not recommend for new design
	256Kx18	S7A401830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
9M bit	256Kx36	S7A803630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
	512Kx18	S7A801830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
18M bit	512Kx36	S7A163630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
	1Mx18	S7A161830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
36M bit	1Mx36	S7A323630M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
	2Mx18	S7A321830M	SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	

(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	Not recommend for new design
	256Kx18	S7B401835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
9M bit	256Kx36	S7B803635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
	512Kx18	S7B801835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
18M bit	512Kx36	S7B163635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
	1Mx18	S7B161835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
36M bit	1Mx36	S7B323635M	FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
	2Mx18	S7B321835M	FT	1.8/2.5/3.0	133MHz	6.5ns	100LQFP	

* Part Number : S7XXXXXXXX-ptss

- p** : Package type
P=TQFP, E=FBGA
- t** : Temperature
I = Industrial Temperature (-40~85C), C=Commercial Temperature (0~70C)
- 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	Not recommend for new design
	256Kx18	S7N401831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
9M bit	256Kx36	S7N803631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
	512Kx18	S7N801831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP	
18M bit	512Kx36	S7N163631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP 165FBGA	
	1Mx18	S7N161831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns		
36M bit	1Mx36	S7N323631M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns	100TQFP 165FBGA	
	2Mx18	S7N321831M	NT_SPB	1.8/2.5/3.0	250MHz	2.6ns		

(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	Not recommend for new design
	256Kx18	S7M401835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
9M bit	256Kx36	S7M803635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
	512Kx18	S7M801835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
18M bit	512Kx36	S7M163635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
	1Mx18	S7M161835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
36M bit	1Mx36	S7M323635M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	
	2Mx18	S7M321835M	NT_FT	1.8/2.5/3.0	133MHz	6.5ns	100TQFP	

* 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



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