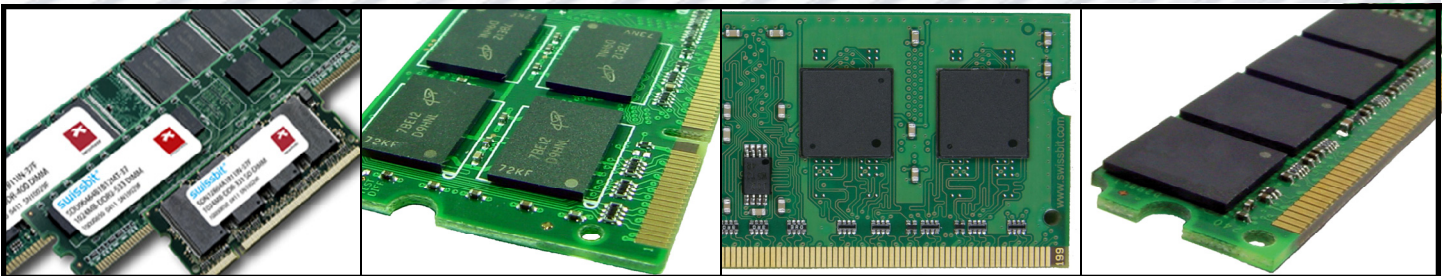


SWISSMEMORY™ Industrial Product Line

DRAM Memory Products

Solutions for Industrial and Embedded Applications
Surface Mount Technology (SMT)



DDR3
DDR2
DDR
SDRAM
DRAM

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DDR3 SDRAM TECHNOLOGY

SDRAM DDR3 modules are Swissbit's most recent Double Data Rate products to market. DDR3 is the memory choice for performance driven systems with clock frequencies of 400 to 800MHz and data rates of 800 to 1600 Mb per second. In addition to DDR3's improved performance in dual- and multi-core systems, it also provides increased efficiency with lower power consumption. DDR3 power consumption is approximately 20% or more lower than its predecessor at 1.35V to 1.5V as compared to the 1.8V of DDR2. Swissbit offers DDR3's unmatched combination of high bandwidth and density with lower power consumption in the variety of module packages.

Density	Swissbit PN	Data Rate (MT/s) - CL	Height	# IC's	IC Org	Rank
DDR3 SDRAM UDIMM (240 pin)						
512MB (64Mx64)	SGU06464C1CB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	4	64Mx16	1
1GB (128Mx64)	SGU12864D1BB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	8	128Mx8	1
2GB (256Mx64)	SGU25664E1BB2xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	16	128Mx8	2
DDR3 SDRAM UDIMM w/ ECC (240 pin)						
512MB (64Mx72)	SGU06472H1CB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	5	64Mx16	1
1GB (128Mx72)	SGU12872F1BB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	9	128Mx8	1
2GB (256Mx72)	SGU25672G1BB2xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	18	128Mx8	2
DDR3 SDRAM RDIMM w/ ECC Parity (240 pin)						
1GB (128Mx72)	SGP12872A1BB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	9	128Mx8	1
1GB (128Mx72)	SGP12872B1AB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	18	128Mx4	1
2GB (256Mx72)	SGP25672C1BB2xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	18	128Mx8	2
2GB (256Mx72)	SGP25672B1AB2xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	18	256Mx4	2
4GB (512Mx72)	SGP51272E1BB4xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	36	128Mx4	4
4GB (512Mx72)	SGP51272D1AB2xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	36	256Mx4	2
DDR3 SDRAM SODIMM (204 pin)						
512MB (64Mx64)	SGN06464C1CB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	4	64Mx16	1
1GB (128Mx64)	SGN12864D1BB1xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	8	128Mx8	1
2GB (256Mx64)	SGN25664E1BB2xx-ssR	800-CL5 / 1066-CL7 / 1333-CL9	1.18" (29.97mm)	16	128Mx8	2
NOTE: ALL SMT MEMORY MODULES AVAILABLE IN COMMERCIAL (0°C TO +70°C) AND INDUSTRIAL (-40°C TO +85°C) TEMPERATURE GRADES THIS REPRESENTS A PARTIAL LISTING OF OUR PRODUCT LINE						

DDR2 SDRAM TECHNOLOGY

Density	Swissbit PN	Data Rate (MT/s) - CL	Height	# IC's	IC Org	Rank
DDR2 SDRAM UDIMM (240 pin)						
256MB (32Mx64)	SEU03264H1CB1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	4	32Mx16	1
512MB (64Mx64)	SEU06464A3BB1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	8	64Mx8	1
512MB (64Mx64)	SEU06464H1CE1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	4	64Mx16	1
1GB (128Mx64)	SEU12864B3BB2xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	16	64Mx8	2
1GB (128Mx64)	SEU12864A3BE1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	8	128Mx8	1
2GB (256Mx64)	SEU25664B3BE2xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	16	128Mx8	2
DDR2 SDRAM UDIMM w/ ECC (240 pin)						
512MB (64Mx72)	SEU06472D4BB1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.10" (27.94mm)	9	64Mx8	1
1GB (128Mx72)	SEU12872D4BE1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.10" (27.94mm)	9	128Mx8	1
1GB (128Mx72)	SEU12872D4BB2xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.10" (27.94mm)	18	64Mx8	2
2GB (256Mx72)	SEU25672D4BE2xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.10" (27.94mm)	18	128Mx8	2
DDR2 SDRAM FBDIMM (240 pin)						
1GB (128Mx72)	SEF12872C1BD2xx-ssRE	533-CL4 / 667-CL5 / 800-CL5	1.195" (30.35mm)	18	64Mx8	2
2GB (256Mx72)	SEF25672C1BD2xx-ssRE	533-CL4 / 667-CL5 / 800-CL5	1.195" (30.35mm)	18	128Mx8	2
DDR2 SDRAM RDIMM w/ ECC Parity (240 pin)						
1GB (128Mx72)	SEP12872E1BB2xx-ssR	533-CL4 / 667-CL5	1.18" (29.97mm)	18	64Mx8	2
1GB (128Mx72)	SEP12872F1AB1xx-ssR	533-CL4 / 667-CL5	1.18" (29.97mm)	18	128Mx4	1
2GB (256Mx72)	SEP25672E1BE2xx-ssR	533-CL4 / 667-CL5	1.18" (29.97mm)	18	128Mx8	2
2GB (256Mx72)	SEP25672F1AB2xx-ssR	533-CL4 / 667-CL5	1.18" (29.97mm)	18	256Mx4	2
4GB (512Mx72)	SEP25672G1AE2xx-ssR	533-CL4 / 667-CL5	1.18" (29.97mm)	36	256Mx4	2
DDR2 SDRAM VLP RDIMM w/ ECC Parity (240 pin)						
1GB (128Mx72)	SEP12872B1BB2xx-ssR	533-CL4 / 667-CL5	0.72" (18.29mm)	18	64Mx8	2
1GB (128Mx72)	SEP12872K1BB2xx-ssR	533-CL4 / 667-CL5	0.72" (18.29mm)	18	128Mx4	2
2GB (256Mx72)	SEP25672B1BB2xx-ssR	533-CL4 / 667-CL5	0.72" (18.29mm)	18	128Mx8	2
2GB (256Mx72)	SEP25672K1BB2xx-ssR	533-CL4 / 667-CL5	0.72" (18.29mm)	18	256Mx4	2
DDR2 SDRAM SODIMM (200 pin)						
256MB (32Mx64)	SEN03264H2CB1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	4	32Mx16	1
512MB (64Mx64)	SEN06464D1BB1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	8	64Mx8	1
512MB (64Mx64)	SEN06464H2CE1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	4	64Mx16	1
1GB (128Mx64)	SEN12864C2BB2xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	16	64Mx8	2
1GB (128Mx64)	SEN12864D1B51xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	8	128Mx8	1
2GB (256Mx64)	SEN25664C4B52xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	16	128Mx8	2
DDR2 SDRAM SORDIMM (200 pin)						
512MB (64Mx72)	SEG06472A1BE1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	9	64Mx8	1
1GB (128Mx72)	SEG12872A1BE1xx-ssR	533-CL4 / 667-CL5 / 800-CL5	1.18" (29.97mm)	9	128Mx8	1
NOTE: ALL SMT MEMORY MODULES AVAILABLE IN COMMERCIAL (0°C TO +70°C) AND INDUSTRIAL (-40°C TO +85°C) TEMPERATURE GRADES						
THIS REPRESENTS A PARTIAL LISTING OF OUR PRODUCT LINE						

DDR SDRAM TECHNOLOGY

Density	Swissbit PN	Data Rate (MT/s) - CL	Height	# IC's	IC Org	Rank
DDR SDRAM UDIMM (184 Pin)						
256MB (32Mx64)	SDU03264B5BG1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	8	32Mx8	1
256MB (32Mx64)	SDU03264O1CF1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	4	32Mx16	1
512MB (64Mx64)	SDU06464H1BG2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	16	32Mx8	2
512MB (64Mx64)	SDU06464B5B61xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	8	64Mx8	1
1GB (128Mx64)	SDU12864H1B62xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	16	64Mx8	2
DDR SDRAM UDIMM w/ ECC (184 Pin)						
256MB (32Mx72)	SDU03272B5BG1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	9	32Mx8	1
512MB (64Mx72)	SDU06472H1BG2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	18	32Mx8	2
512MB (64Mx72)	SDU06472B5BF1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	9	64Mx8	1
1GB (128Mx72)	SDU12872H1BF2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	18	64Mx8	2
DDR SDRAM RDIMM (184 Pin)						
512MB (64Mx72)	SDR06472D1BG2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.20" (30.48mm)	18	32Mx8	2
512MB (64Mx72)	SDR06472D1BF1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.20" (30.48mm)	9	64Mx8	1
1GB (128Mx72)	SDR12872D1B62xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.20" (30.48mm)	18	64Mx8	2
2GB (256Mx72)	SDR25672K2A62xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.20" (30.48mm)	18	256Mx4	2
DDR SDRAM SODIMM (200 Pin)						
256MB (32Mx64)	SDN03264G1C61xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	4	32Mx16	1
512MB (64Mx64)	SDN06464A1B61xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	8	64Mx8	1
512MB (64Mx64)	SDN06464E1C62xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	8	32Mx16	2
1GB (128Mx64)	SDN12864L1B62xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.25" (31.75mm)	16	64Mx8	2
DDR SDRAM miniDIMM (100 Pin)						
128MB (32Mx32)	SDU03232B1BG1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.10" (27.94mm)	4	32Mx8	1
256MB (64Mx32)	SDU06432B1BF1xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.10" (27.94mm)	4	64Mx8	1
256MB (64Mx32)	SDU06432A1CF2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.10" (27.94mm)	4	32Mx16	2
512MB (128Mx32)	SDU12832B1BF2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.10" (27.94mm)	8	64Mx8	2
512MB (128Mx32)	SDU12832A1CF2xx-ssR	266-CL2.5 / 333-CL2.5 / 400-CL3	1.10" (27.94mm)	4	64Mx16	2
NOTE: ALL SMT MEMORY MODULES AVAILABLE IN COMMERCIAL (0°C TO +70°C) AND INDUSTRIAL (-40°C TO +85°C) TEMPERATURE GRADES THIS REPRESENTS A PARTIAL LISTING OF OUR PRODUCT LINE						

LEGACY SDRAM & DRAM TECHNOLOGY

Density	Swissbit PN	Data Rate (MT/s) - CL	Height	# IC's	IC Org	Rank
SDRAM UDIMM (168 pin)						
256MB (32Mx64)	SSU03264F1BG2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	16	16Mx8	2
256MB (32Mx64)	SSU03264F1BG1xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	8	32Mx8	1
512MB (64Mx64)	SSU06464F1BG2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	16	32Mx8	2
SDRAM UDIMM w/ ECC (168 pin)						
256MB (32Mx72)	SSU03272F1BG2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	18	16Mx8	2
256MB (32Mx72)	SSU03272F1BG1xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	9	32Mx8	1
512MB (64Mx72)	SSU06472F1BG2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	18	32Mx8	2
SDRAM RDIMM (168 pin)						
512MB (64Mx72)	SSR06472C1BD2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.20" (30.48mm)	18	32Mx8	2
512MB (64Mx72)	SSR06472C1AD2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.20" (30.48mm)	18	64Mx4	2
1GB (128Mx72)	SSR12872C1BD2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.20" (30.48mm)	18	64Mx8	2
1GB (128Mx72)	SSR12872C1AD2xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.20" (30.48mm)	18	128Mx4	2
SDRAM SODIMM (144 pin)						
256MB (32Mx64)	SSN03264A3BG1xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	8	32Mx8	1
256MB (32Mx64)	SSN03264D2CD1xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	4	32Mx16	1
512MB (64Mx64)	SSN06464A3BG1xx-ssR	100-CL2 / 133-CL3 / 133-CL2	1.15" (29.21 mm)	8	64Mx8	1
DRAM SIMM EDO (72 pin) GOLD / TIN LEAD						
4MB (1Mx32)	SAE00132G1CF1xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	2	1Mx16	1
4MB (1Mx36)	SAE00136G1CF1xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	3	1Mx16	1
8MB (2Mx32)	SAE00232G1CF1xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	4	1Mx16	1
8MB (2Mx36)	SAE00236G1CF1xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	6	1Mx16	1
16MB (4Mx32)	SAE00432E1AF1xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	8	4Mx4	1
16MB (4Mx36)	SAE00436E1AF1xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	9	4Mx4	1
32MB (8Mx32)	SAE00832E1AF2xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	16	4Mx4	2
32MB (8Mx36)	SAE00836E1AF2xx-ssR	70ns / 60ns / 50ns	1.00" (25.40mm)	18	4Mx4	2
NOTE: ALL SMT MEMORY MODULES AVAILABLE IN COMMERCIAL (0°C TO +70°C) AND INDUSTRIAL (-40°C TO +85°C) TEMPERATURE GRADES						
THIS REPRESENTS A PARTIAL LISTING OF OUR PRODUCT LINE						

SWISSMEMORY™

WHY CHOOSE SWISSBIT

Swissbit is the largest independent DRAM module and Flash storage manufacturer in Europe and is a global leader in technology supplying High Quality Memory solutions to the Industrial, Embedded, Communications & Networking, Military & Aerospace, Automotive, Casino Gaming, and Medical Equipment markets. Swissbit was created from a management buy-out from Siemens Memory Products in 2001 and has over 17 years of combined knowledge and experience in the memory industry. Swissbit's commitment to high quality, reliability, exceptional customer service, and competitive pricing is what enables our customers and partners to enjoy a constant source of supply and product commitment for their past, current, and future requirements.

Product Depth

- Complete line of DRAM modules and NAND Flash Solid State Drives
- Extensive support on DDR3, DDR2, DDR, SDRAM, DRAM memory modules
- Interface expertise SATA, PATA, DMA CFC, UDMA CFC, USB, and SD Flash Products
- Application specific form factors (VLP, UDIMM, RDIMM, miniDIMM, SODIMM, SOCDIMM)
- Unique Chip-On-Board (COB) technology
- Extended and Industrial temperature grade product offering

Sales Service and Engineering Support

- Fast, effective, and competent sales staff on hand to serve your needs
- Your requirements combined with our market expertise result in tailor-made solutions
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- Global manufacturing facilities

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- 1 Million product-per-month capacity
- Faster time-to-market
- Dock-to-stock delivery

Customization

- Custom module and Flash designs
- Electronic Design and Manufacturing Services (EDMS)
- Patented static / active wear leveling
- Patented data loss protection
- Security features
- Thermal simulations
- Labeling

OEM Services

- Controlled Bill of Materials (BOM)
- Serialization and Lot Code Tracking
- Quality and Engineering documents provided
- Support long life cycles
- Vendor Managed Inventory (VMI)

Test for Reliability

- Advantest, KTI, and CST
- System level Test During Burn-In (TDBI)
- Extended and Industrial Temperature Testing
- Environmental testing
- Application testing

Compliance

- RoHS
- WEEE
- UL
- FCC
- CE

Quality

- ISO 9001:2000

Associations

- Member of CompactFlash Association (CFA)
- Member of JEDEC
- Member of Memory Implementers Forum
- Member of SATA-IO
- Member of SecureDigital Association (SDA)
- Member of USB Implementer Forum
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