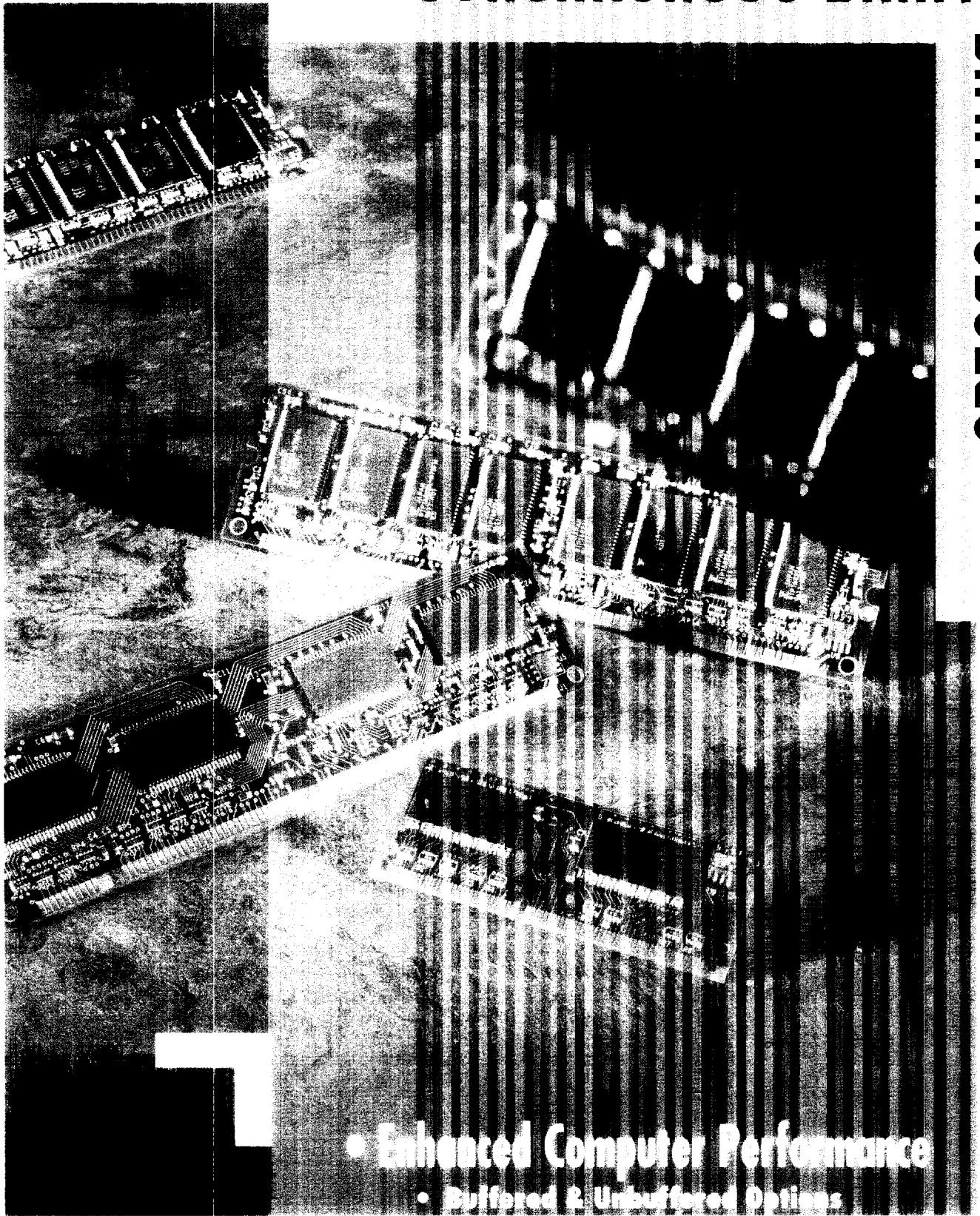


SYNCHRONOUS DRAM

DIMM MODULES



- Enhanced Computer Performance
- Buffered & Unbuffered Options
 - 66 - 100MHz Bus Operation
- Serial & Parallel Presence Detect Options

SMRTD005



SMART
Modular Technologies

QUICK REFERENCE GUIDE: SDRAM DIMM MODULES

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DENSITY	ORG.	BASE DRAMs	ERROR CORRECTION	PART NUMBER*
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144 PIN, UNBUFFERED, SERIAL PRESENCE DETECT, 3.3V SO DIMMs

8MB	1M x 64	1M x 16	None	SM564013174NWUU
16MB	2M x 64	1M x 16	None	SM564023174NWUU
16MB	2M x 64	2M x 8	None	SM564028074NWUU
32MB	4M x 64	2M x 8	None	SM564048074NWUU
32MB	4M x 64	4M x 4	None	SM564044074NWUU
16MB	2M x 72	2M x 8	ECC	SM572028074DWUU
32MB	4M x 72	2M x 8	ECC	SM572048074DWUU
32MB	4M x 72	4M x 4	ECC	SM572044074DWUU

144 PIN, BUFFERED, PARALLEL PRESENCE DETECT, 3.3V SO DIMMs

16MB	2M x 72	2M x 8	ECC	SM572028074EWUU
32MB	4M x 72	2M x 8	ECC	SM572048074EWUU
32MB	4M x 72	4M x 4	ECC	SM572044074EWUU

168 PIN, UNBUFFERED, SERIAL PRESENCE DETECT, 3.3V DIMMs

8MB	1M x 64	1M x 16	None	SM564013174N6UU
16MB	2M x 64	1M x 16	None	SM564023174N6UU
16MB	2M x 64	2M x 8	None	SM564028074N6UU
32MB	4M x 64	2M x 8	None	SM564048074N6UU
32MB	4M x 64	4M x 4	None	SM564044074N6UU
64MB	8M x 64	8M x 8	None	SM564088078N6UU
16MB	2M x 72	2M x 8	ECC	SM572028074D6UU
32MB	4M x 72	2M x 8	ECC	SM572048074D6UU
32MB	4M x 72	4M x 4	ECC	SM572044074D6UU
64MB	8M x 72	8M x 8	ECC	SM572088078D6UU
128MB	16M x 72	8M x 8	ECC	SM572168078D6UU
128MB	16M x 72	16M x 4	ECC	SM572164078D6UU
8MB	1M x 80	1M x 16	ECC	SM580013174D6UU
16MB	2M x 80	1M x 16	ECC	SM580023174D6UU
16MB	2M x 80	2M x 8	ECC	SM580028074D6UU
32MB	4M x 80	2M x 8	ECC	SM580048074D6UU
32MB	4M x 80	4M x 4	ECC	SM580044074D6UU
64MB	8M x 80	8M x 8	ECC	SM580088078D6UU
64MB	8M x 80	4M x 16	ECC	SM580083178D6UU
128MB	16M x 80	8M x 8	ECC	SM580168078D6UU
128MB	16M x 80	16M x 4	ECC	SM580164078D6UU

*See part numbering guide to indicate package and speed - some items are still in development, check with corporate headquarters for availability.

QUICK REFERENCE GUIDE: SDRAM DIMM MODULES contd.

DENSITY	ORG.	BASE DRAMs	ERROR CORRECTION	PART NUMBER*
168 PIN, BUFFERED, PARALLEL PRESENCE DETECT, 3.3V DIMMs				
8MB	1M x 64	1M x 16	None	SM564013174X6UU
16MB	2M x 64	2M x 8	None	SM564028074X6UU
16MB	2M x 64	1M x 16	None	SM564023174X6UU
32MB	4M x 64	2M x 8	None	SM564048074X6UU
32MB	4M x 64	4M x 4	None	SM564044074X6UU
64MB	8M x 64	8M x 8	None	SM564088078X6UU
16MB	2M x 72	2M x 8	ECC	SM572028074E6UU
32MB	4M x 72	2M x 8	ECC	SM572048074E6UU
32MB	4M x 72	4M x 4	ECC	SM572044074E6UU
64MB	8M x 72	4M x 4	ECC	SM572084074E6UU
64MB	8M x 72	8M x 8	ECC	SM572088078E6UU
128MB	16M x 72	8M x 8	ECC	SM572168078E6UU
128MB	16M x 72	16M x 4	ECC	SM572164078E6UU
8MB	1M x 80	1M x 16	ECC	SM580013174E6UU
16MB	2M x 80	1M x 16	ECC	SM580023174E6UU
16MB	2M x 80	2M x 8	ECC	SM580028074E6UU
32MB	4M x 80	2M x 8	ECC	SM580048074E6UU
32MB	4M x 80	4M x 4	ECC	SM580044074E6UU
64MB	8M x 80	8M x 8	ECC	SM580088078E6UU
64MB	8M x 80	4M x 16	ECC	SM580083178E6UU
128MB	16M x 80	8M x 8	ECC	SM580168078E6UU
128MB	16M x 80	16M x 4	ECC	SM580164078E6UU

200 PIN , BUFFERED, PLL CLOCK DRIVER, PARALLEL PRESENCE DETECT, 3.3V DIMMs

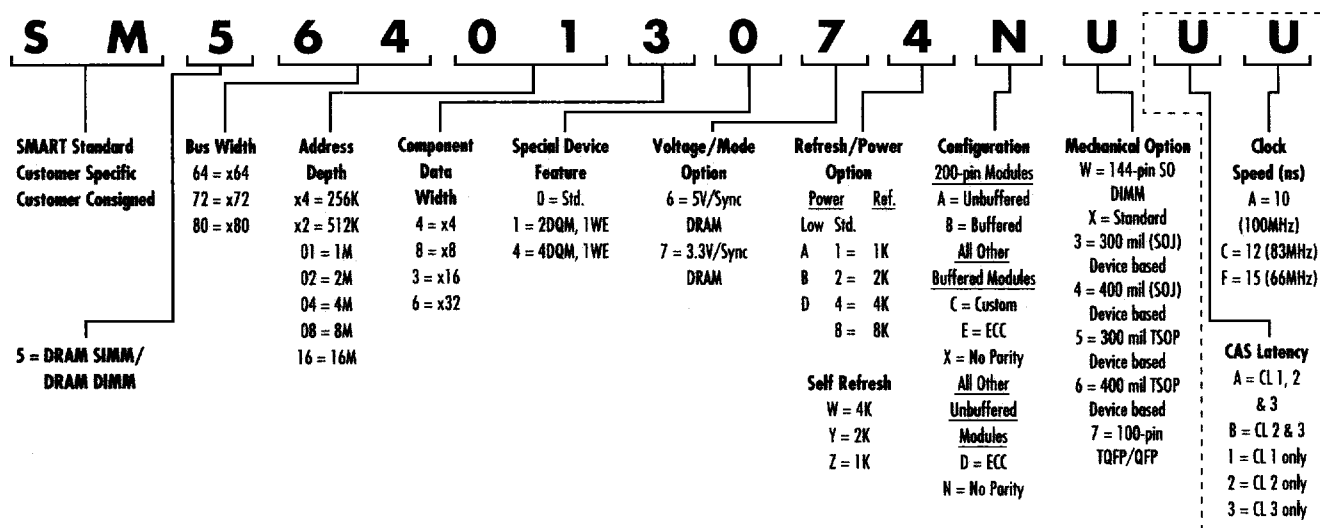
2MB	256K x 72	256K x 32	ECC	SM572X46471B7UU
8MB	1M x 72	1M x 16	ECC	SM572013174B6UU

OVERALL DIMENSIONS

TYPE	LENGTH	WIDTH (w/TSOP only)		HEIGHT
		Single-sided	Double-sided	
144 pin SO DIMM	2.66"	0.100" (max)	0.150" (max)	See specific datasheet
168 pin	5.25"	0.110" (max)	0.160" (max)	
200 pin	6.051"	0.110" (max)	0.160" (max)	

*See part numbering guide to indicate package and speed - some items are still in development, check with corporate headquarters for availability.

SDRAM MODULE PART NUMBERING GUIDE



To order, complete the part numbers in the quick reference guide by selecting the desired U code. U = user specified.

EXAMPLE: SM564013174N6BA 1M x 64, 4K Refresh, Unbuffered, 3.3V, 100MHz, SDRAM Module using 1M x 16 SDRAMs w/CL = 2 & 3

A COMPLETE LINE OF MEMORY MODULES & PC (PCMCIA) CARDS

SMART Modular Technologies offers a growing line of Synchronous DRAM DIMM modules. These modules have the capability of matching the computer memory bus operating frequency in the 66 to 100 MHz range.

This new type of Dynamic RAM module operates in sync with the system clock and can provide a pipelined burst operating mode.

Other memory modules & PC (PCMCIA) cards manufactured by SMART Modular Technologies, Inc.:

- High density modules up to 256 Megabyte per module
- Full line of 72 pin JEDEC standard DRAM SIMM modules to 64MB with 3.3V and 5V, FPM and EDO options
- Full line of 168 pin, 8 byte wide DRAM DIMM modules to 64MB with 3.3V and 5V, FPM and EDO options

- Full line of 72 pin SO DIMM DRAM modules to 16MB with 3.3V and 5V, FPM and EDO options
- 144 pin SO DIMM with FPM and EDO options in development
- Sun SPARCstation 10/20 memory modules
- COAST L2 Cache modules
- Full line of Flash SIMM modules up to 32MB
- Code Developer's Kit for Flash SIMM modules
- PC (PCMCIA) 68 pin, Type I Flash cards
- PC (PCMCIA) ATA Flash cards
- PC (JEDEC) 88 pin, Type I DRAM cards
- PC (PCMCIA) specialty and I/O cards including V.34 fax/modems



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