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# Configuring Memory

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## Desktop Memory Matrix

	Config.	Type	Connector			ECC	Standard	*Max
Models	Code	RAM	Edge	Pins	Speed	Standard	MBs	MBs
END/P700/10/9/128c	DPV2	SDRAM	Gold	168	100MHz	No	128 MB	768 MB
END/P700/10/4/128c	DPV3	SDRAM	Gold	168	100MHz	No	128 MB	768 MB
END/P733/13d/4/128c	DNS3	RDRAM	Gold	184	100MHz	No	128 MB	512 MB
END/P667/13d/4/128c	DJF8	RDRAM	Gold	184	100MHz	No	128 MB	512 MB
	Config.	Type	Connector			ECC	Standard	*Max
Models	Code	RAM	Edge	Pins	Speed	Standard	MBs	MBs
END/P533/820/13/64/C/9	DCC2	RDRAM	Gold	184	600 MHz	No	PC600/64 MB RDRAM	512 MB
END/P533/820/13/64/C/4	DCC3	RDRAM	Gold	184	600 MHz	No	PC600/64 MB RDRAM	512 MB
END/P600/820/13/64/C/9	DH92	RDRAM	Gold	184	700 MHz	No	PC700/64 MB RDRAM	512 MB
END/P600/820/13/128/C/9	DH93	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB

END/P600/820/13/64/C/4	DH94	RDRAM	Gold	184	700 MHz	No	PC700/64 MB RDRAM	512 MB
END/P600/820/13/128/C/4	DH95	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
END/P667/820/13/64/C/9	DJF3	RDRAM	Gold	184	700 MHz	No	PC700/64 MB RDRAM	512 MB
END/P667/820/13/128/C/9	DJF5	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
END/P667/820/13/64/C/4	DJF6	RDRAM	Gold	184	700 MHz	No	PC700/64 MB RDRAM	512 MB
END/P667/820/13/128/C/4	DJF8	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
END/P733/820/13/128/C/9	DNS2	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
END/P733/820/13/128/C/4	DNS3	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
	<b>Config.</b>	<b>Type</b>	<b>Connector</b>			<b>ECC</b>	<b>Standard</b>	<b>*Max</b>
<b>Models</b>	<b>Code</b>	<b>RAM</b>	<b>Edge</b>	<b>Pins</b>	<b>Speed</b>	<b>Standard</b>	<b>MBs</b>	<b>MBs</b>
DPEND-C500/4a/5/32/n	DBW2	SDRAM	Gold	168	100MHz	No	32 MB	768 MB
DPEND-C500/4a/8/32/n	DBW3	SDRAM	Gold	168	100MHz	No	32 MB	768 MB
DPEND-C500/4a/4/64/n	DBW4	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C500/6a/5/64	DBW5	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C500/6a/8/64	DBW6	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C500/6a/4/64	DBW7	SDRAM	Gold	168	100MHz	No	64 MB	768 MB

DPEND-C500/6a/5/64c	DBW8	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C500/6a/8/64c	DBW9	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
	<b>Config.</b>	<b>Type</b>	<b>Connector</b>			<b>ECC</b>	<b>Standard</b>	<b>*Max</b>
<b>Models</b>	<b>Code</b>	<b>RAM</b>	<b>Edge</b>	<b>Pins</b>	<b>Speed</b>	<b>Standard</b>	<b>MBs</b>	<b>MBs</b>
DPEND-P600/10/5/64	DD22	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P600/10/4/64	DD23	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P600/10/5/64c	DD24	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P600/10/4/64c	DD25	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P600/10/5/128c	DD26	SDRAM	Gold	168	100MHz	No	128 MB	768 MB
DPEND-P600/10/4/128c	DD27	SDRAM	Gold	168	100MHz	No	128 MB	768 MB
	<b>Config.</b>	<b>Type</b>	<b>Connector</b>			<b>ECC</b>	<b>Standard</b>	<b>*Max</b>
<b>Models</b>	<b>Code</b>	<b>RAM</b>	<b>Edge</b>	<b>Pins</b>	<b>Speed</b>	<b>Standard</b>	<b>MBs</b>	<b>MBs</b>
DPEND-C466/4a/5/32/n	CV92	SDRAM	Gold	168	100MHz	No	32 MB	768 MB
DPEND-C466/4a/8/32/n	CV93	SDRAM	Gold	168	100MHz	No	32 MB	768 MB
DPEND-C466/4a/4/64/n	CV94	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C466/6a/5/64	CV95	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C466/6a/8/64	CV96	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C466/6a/4/64	CV97	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C466/6a/5/64c	CV98	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-C466/6a/8/64c	CV99	SDRAM	Gold	168	100MHz	No	64 MB	768 MB

DPEND/C466/6a/4/64c	DBP2	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND/C466/4a/5/32	DBP3	SDRAM	Gold	168	100MHz	No	32 MB	768 MB
	<b>Config.</b>	<b>Type</b>	<b>Connector</b>			<b>ECC</b>	<b>Standard</b>	<b>*Max</b>
<b>Models</b>	<b>Code</b>	<b>RAM</b>	<b>Edge</b>	<b>Pins</b>	<b>Speed</b>	<b>Standard</b>	<b>MBs</b>	<b>MBs</b>
DPEND/P500/6.4/64/W5n	CKP6	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/6.4/64/W5n	CRZ2	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/6.4/64/W5	CRZ4	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/6.4/64/NT	CRZ5	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/6.4/64/W5C	CRZ6	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/6.4/64/NTC	CRZ7	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/10/64/NTC	CRZ3	SDRAM	Gold	168	100MHz	No	64 MB	768 MB
DPEND-P550/10/128/W5C	CRZ8	SDRAM	Gold	168	100MHz	No	128 MB	768 MB
DPEND-P550/10/128/NTC	CRZ9	SDRAM	Gold	168	100MHz	No	128 MB	768 MB
	<b>Config.</b>	<b>Type</b>	<b>Connector</b>			<b>ECC</b>	<b>Standard</b>	<b>*Max</b>
<b>Models</b>	<b>Code</b>	<b>RAM</b>	<b>Edge</b>	<b>Pins</b>	<b>Speed</b>	<b>Standard</b>	<b>MBs</b>	<b>MBs</b>
DPEND-P450+/10/12/W5C	CKN2	SDRAM	Gold	168	100MHz	No	128	768 MB
DPEND-P450+/10/12/NTC	CKN3	SDRAM	Gold	168	100MHz	No	128	768 MB
DPEND-P450+/10/64/NTC	CKN5	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND P450+/S9.1/NTC	CKN4	SDRAM	Gold	168	100MHz	Yes	64	768 MB
DPEND-P500/10/128/W5C	CKP2	SDRAM	Gold	168	100MHz	No	128	768 MB

DPEND-P500/10/128/NTC	CKP3	SDRAM	Gold	168	100MHz	No	128	768 MB
DPEND-P500/10/64/N4C	CKP5	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-P500/S9.1/12/NC	CKP4	SDRAM	Gold	168	100MHz	Yes	128	768 MB
DPEND-C400/6.4/W5nn	CKM2	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-C400/6.4/W5	CKM3	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-C400/6.4/W5C	CKM6	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-C300A/3.2/W5nn	CGQ2	SDRAM	Gold	168	100MHz	No	32	768 MB
DPEND-C300A/3.2/N4	CGQ3	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-C300A/3.2/W5	CGQ4	SDRAM	Gold	168	100MHz	No	32	768 MB
DPEND-C333/3.2/W5nn	CDZ2	SDRAM	Gold	168	100MHz	No	32	768 MB
DPEND-C333/3.2/N4	CDZ3	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-C333/3.2/W5	CDZ4	SDRAM	Gold	168	100MHz	No	32	768 MB
DPEND-C333/3.2/W5C	CDZ5	SDRAM	Gold	168	100MHz	No	32	768 MB
DPEND-P350/10.0/N4	CD23	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-P400/6.4/W5nn	CD35	SDRAM	Gold	168	100MHz	No	32	768 MB
DPEND-P450/10.0/N4C-6	CD47	SDRAM	Gold	168	100MHz	No	64	768 MB
DPEND-P450/10.0/N4C-1	CD49	SDRAM	Gold	168	100MHz	No	128	768 MB
DPEND-P450/S9.1/N4C	CD48	SDRAM	Gold	168	100MHz	Yes	64 ECC	768 MB
DP EN 6400/6400WC	BW42	SDRAM	Gold	168	100MHz	No	64	768 MB

DP EN 6400/6400NC	BW43	SDRAM	Gold	168	100MHz	No	64	768 MB
DP EN 6400/S4300NC	BW44	SDRAM	Gold	168	100MHz	Yes	64 ECC	768 MB
DP EN 6350/6400W/nn	BW37	SDRAM	Gold	168	100MHz	No	32	768 MB
DP EN 6350/6400N	BW32	SDRAM	Gold	168	100MHz	No	32	768 MB
DP EN 6350/6400W	BW33	SDRAM	Gold	168	100MHz	No	32	768 MB
DP EN 6350/6400WC	BW34	SDRAM	Gold	168	100MHz	No	64	768 MB
DP EN 6350/6400NC	BW38	SDRAM	Gold	168	100MHz	No	64	768 MB
DP EN 6350/S4300NC	BW35	SDRAM	Gold	168	100MHz	No	64	768 MB
DP EN 6333/3200W/nn	BW27	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6333/3200N	BW22	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6333/3200W	BW24	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6333/3200WC	BW25	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6333/3200NC	BW23	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6333/6400W	BW28	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6333/S4300NC	BW29	SDRAM	Gold	168	66MHz	Yes	32 ECC	768 MB
DP EN 6300/3200W/nn	BXH7	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6300/3200N	BXH2	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6300/3200W	BXH4	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6300/6400W	BXH8	SDRAM	Gold	168	66MHz	No	32	768 MB

DP EN 6266/3200W/nn	BWZ6	SDRAM	Gold	168	66MHz	No	16	768 MB
DP EN 6266/3200N	BWZ2	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6266/3200W	BWZ4	SDRAM	Gold	168	66MHz	No	32	768 MB
DP EN 6266/3200WC	BWZ3	SDRAM	Gold	168	66MHz	No	32	768 MB

"Use of 256 MB DIMM modules to achieve 768 or 512 MB maximum memory requires 02/08/99 or later version of system ROM.

## Desktop Standard Memory

Standard/Max	Standard Memory 66MHz		Slots		
	Soldered	Socketed	Used	Empty	Total
32MB/768	None	One 32MB DIMM	1	2	3
16MB/768	None	One 16MB DIMM	1	2	3

Standard/Max	Standard Memory 100MHz		Slots		
	Soldered	Socketed	Used	Empty	Total
128MB/768	None	One 128MB DIMM	1	2	3
64MB/768	None	One 64MB DIMM	1	2	3
32MB/768	None	One 32MB DIMM	1	2	3

## Minitower Memory Matrix

Models	Config.	Type	Connector		Speed	ECC	Standard	*Max
	Code	RAM	Edge	Pins		Standard	MBs	MBs
ENM/P667/13d/4/128c	DCD2	RDRAM	Gold	184	700 MHz	No	128 MB	512 MB
ENM/P600/820/13/128/C/9	DJB2	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB

ENM/P600/820/13/128/C/4	DJB3	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
ENM/P667/820/13/128/C/9	DCD3	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
ENM/P667/820/13/128/C/4	DCD2	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
ENM/P733/820/13/128/C/4	DNT2	RDRAM	Gold	184	700 MHz	No	PC700/128 MB RDRAM	512 MB
	<b>Config.</b>	<b>Type</b>	<b>Connector</b>			<b>ECC</b>	<b>Standard</b>	<b>*Max</b>
<b>Models</b>	<b>Code</b>	<b>RAM</b>	<b>Edge</b>	<b>Pins</b>	<b>Speed</b>	<b>Standard</b>	<b>MBs</b>	<b>MBs</b>
DPENM-P450/M1	CLBP	SDRAM	Gold	168	100MHz	No	64	768
DPENM-P550/10/128/W5C	CR22	SDRAM	Gold	168	100MHz	No	128	768
DPENM-P550/10/128/NTC	CR23	SDRAM	Gold	168	100MHz	No	128	768
DPENM-P550/S9.1/128/NC	CR24	SDRAM	Gold	168	100MHz	Yes	128	768
DPENM-P500/S9.1/12/NC	CKT4	SDRAM	Gold	168	100MHz	Yes	128	768
DPENM P500/10.0/N4C	CKT3	SDRAM	Gold	168	100MHz	No	128	768
DPENM P400/M1	CK9P	SDRAM	Gold	168	100MHz	No	64	768
DPENM-C300A/3.2/W5Cnn	CGR2	SDRAM	Gold	168	66MHz	No	32 MB SDRAM	768
DPENM-C300A/3.2/W5C	CGR4	SDRAM	Gold	168	66MHz	No	32 MB SDRAM	768
DPENM-C333/6.4/W5Cnn	CGS2	SDRAM	Gold	168	66MHz	No	32 MB SDRAM	768
DPENM-C333/6.4/W5C	CGS4	SDRAM	Gold	168	66MHz	No	32 MB SDRAM	768
DPENM-P400/6.4/W5C	CD53	SDRAM	Gold	168	100MHz	No	64 MB SDRAM	768
DPENM-P400/6.4/N4C	CD54	SDRAM	Gold	168	100MHz	No	64 MB SDRAM	768
DPENM-P450/6.4/W5C	CD63	SDRAM	Gold	168	100MHz	No	64 MB SDRAM	768
DPENM-P450/6.4/N4C	CD64	SDRAM	Gold	168	100MHz	No	64 MB SDRAM	768



DPENM-P450/S9.1/N4C-1	CD65	SDRAM	Gold	168	100MHz	Yes	128 MB ECC SDRAM	768
DP EN M-P266/3.2/W5C	BW72	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P266/3.2/N4C	BW75	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P266/3.2/W5Cnn	BW74	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P333/6.4/W5Cnn	BZK2	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P333/6.4/W5C	BZK3	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P350/6.4/W5C	BW82	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P350/6.4/N4C	BW85	SDRAM	Gold	168	100MHz	Yes	32 MB ECC SDRAM	768
DP EN M-P350/S4.3/N4C	BW83	SDRAM	Gold	168	100MHz	Yes	64 MB ECC SDRAM	768
DP EN M-P400/S9.1/N4C	BZL2	SDRAM	Gold	168	100MHz	Yes	64 MB ECC SDRAM	768

**Note:** \*Use of 256 MB DIMM modules to achieve 768 or 512 MB maximum memory requires 02/08/99 or later version of system ROM.

## Minitower Standard Memory

Standard/Max	Standard Memory 66MHz		Slots		
	Soldered	Socketed	Used	Empty	Total
32MB/384	None	One 32MB DIMM	1	2	3
16MB/384	None	One 16MB DIMM	1	2	3

Standard/Max	Standard Memory 100MHz		Slots		
	Soldered	Socketed	Used	Empty	Total
64MB/384	None	One 64MB DIMM	1	2	3
32MB/384	None	One 32MB DIMM	1	2	3

## System Memory Map

Size	Memory Address	System Function
256 KB	FFFC0000h to FFFFFFFFh	System ROM
3839 MB	10000000h to FFFBFFFFh	PCI Memory Expansion
255 MB	00100000h to 0FFFFFFFh	HOST or PCI Memory Expansion
128KB	000E0000h to 000FFFFFFh	System ROM
96 KB	000C8000h to 000DFFFFh	ISA/PCI option ROMs
32 KB	000C0000h to 000C7FFFh	Video ROM
128 KB	000A0000h to 000BFFFFh	Video RAM
640 KB	00000000h to 0009FFFFh	Base Memory
<b>Note:</b> All memory above the first 256 MB is non-cacheable. All PCI memory is non-cacheable.		

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