

UV & OTP EPROM, 5V Operation

Size	References	Description	Package
16 Kb	M2716	16 Kb (x8), 350 - 450ns, NMOS	FDIP24W
32 Kb	M2732A	32 Kb (x8), 200 - 450ns, NMOS	FDIP24W
64 Kb	M2764A M27C64A	64 Kb (x8), 180 - 450ns 64 Kb (x8), 150 - 300ns	FDIP28W, PLCC32
128 Kb	M27128A	128 Kb (x8), 200 - 450ns, NMOS	FDIP28W
256 Kb	M27256 M27C256B M87C257	256 Kb (x8), 170 - 400ns, NMOS 256 Kb (x8), 45 - 250ns 256 Kb (x8 Address Latched), 45 - 200ns	FDIP28W FDIP28W, PDIP28, PLCC32, TSOP28 FDIP32W, PLCC32
512 Kb	M27512 M27C512 M27C516	512 Kb (x8), 200 - 300ns, NMOS 512 Kb (x8), 45 - 250ns 512 Kb (x16), 55 - 250ns	FDIP28W FDIP28W, PDIP28, PLCC32, TSOP28 PLCC44
1 Mb	M27C1001 M27C1024	1 Mb (x8), 45 - 250ns 1 Mb (x16), 55 - 250ns	FDIP32W, LCCC32W, PDIP32, PLCC32, TSOP32 FDIP40W, PLCC44, TSOP40
2 Mb	M27C2001 M27C202	2 Mb (x8), 55 - 250ns 2 Mb (x16), 55- 200ns	FDIP32W, LCCC32W, PDIP32, PLCC32, TSOP32 PLCC44, TSOP40
4 Mb	M27C405 M27C4001 M27C4002	4 Mb (x8), 70 - 150ns, Flash M29F040 compatible 4 Mb (x8), 55 - 150ns 4 Mb (x16), 70 - 200ns	PDIP32, PLCC32, TSOP32 FDIP32W, LCCC32W, PDIP32, PLCC32, TSOP32 FDIP40W, JLCC44W, PLCC44, TSOP40
8 Mb	M27C800 M27C801	8 Mb (x8/x16), 80 - 120ns, ROM replacement 8 Mb (x8), 80 - 200ns	FDIP42W, SO44, PLCC44 FDIP32W, PLCC32, TSOP32
16 Mb	M27C160	16 Mb (x8/x16), 80 - 150ns	FDIP42W, SO44

UV & OTP EPROM, 3.3V Operation

Size	References	Description	Package
256 Kb	M27V256	256 Kb (x8), 70 - 200ns	FDIP28W, PLCC32, TSOP28
512 Kb	M27V512	512 Kb (x8), 90 - 200ns	FDIP28W, PDIP28, PLCC32, TSOP32
1 Mb	M27V101 M27V102	1 Mb (x8), 90 - 200ns 1 Mb (x16), 100 - 200ns	FDIP32W, LCCC32W, PDIP32, PLCC32, TSOP32 FDIP40W, PLCC44, TSOP40
2 Mb	M27V201	2 Mb (x8), 100 - 200ns	FDIP32W, LCCC32W, PLCC32, TSOP32
4 Mb	M27V401 M27V402 M27V405	4 Mb (x8), 100 - 200ns 4 Mb (x16), 120 - 200ns 4 Mb (x8), 120 - 200ns, FLASH M29W040 compatible	FDIP32W, LCCC32W, PLCC32, TSOP32 FDIP40W, PLCC44, TSOP40 PLCC32, TSOP32
8 Mb	M27V800 M27V801	8 Mb (x8/x16), 120 - 150ns, ROM replacement 8 Mb (x8), 150 - 200ns	FDIP42W, SO44 FDIP32W, PLCC32, TSOP32
16 Mb	M27V160	16 Mb (x8/x16), 120 - 150ns, ROM replacement	FDIP42W, SO44

NON VOLATILE MEMORIES**UV & OTP EPROM, 3V Operation**

Size	References	Description	Package
256 Kb	M27W256	256 Kb (x8), 90 - 200ns	FDIP28W, PLCC32, TSOP28
512 Kb	M27W512	512 Kb (x8), 100 - 200ns	FDIP28W, PDIP28, PLCC32, TSOP32
1 Mb	M27W101	1 Mb (x8), 120 - 200ns	FDIP32W, LCCC32W, PDIP32, PLCC32, TSOP32
	M27W102	1 Mb (x16), 150 - 200ns	FDIP40W, PLCC44, TSOP40
2 Mb	M27W201	2 Mb (x8), 120 - 200ns	FDIP32W, LCCC32W, PLCC32, TSOP32
4 Mb	M27W401	4 Mb (x8), 120 - 200ns	FDIP32W, LCCC32W, PLCC32, TSOP32
	M27W402	4 Mb (x16), 150 - 200ns	FDIP40W, PLCC44, TSOP40
8 Mb	M27W800	8 Mb (x8/x16), 150ns, ROM replacement	FDIP42W, SO44
	M27W801	8 Mb (x8), 150 - 200ns	FDIP32W, PLCC32, TSOP32
16 Mb	M27W160	16 Mb (x8/x16), 150ns, ROM replacement	FDIP42W, SO44

FLASH MEMORY DUAL VOLTAGE, 5/12V

Size	References	Description	Package
256K	M28F256	256K (x8), 90 - 200ns, Bulk	PDIP32, PLCC32
512K	M28F512	512K (x8), 90 - 200ns, Bulk	PDIP32, PLCC32
1 Mb	M28F101	1 Mb (x8), 70 - 200ns, Bulk	PDIP32, PLCC32, TSOP32
	M28F102	1 Mb (x16), 100 - 150ns, Bulk	PLCC44, TSOP40
2 Mb	M28F201	2 Mb (x8), 70 - 150ns, Bulk	PLCC32, TSOP32
	M28F220	2 Mb (x8 or x16), 60 - 120ns, Bottom Boot	SO44, TSOP48
4 Mb	M28F410	4 Mb (x8 or x16), 60 - 120ns, Top Boot	SO44
	M28F411	4 Mb (x8), 60 - 120ns, Top Boot	TSOP40
	M28F420	4 Mb (x8 or x16), 60 - 120ns, Bottom Boot	SO44

FLASH MEMORY DUAL VOLTAGE, 3/12V

Size	References	Description	Package
2 Mb	M28W231	2 Mb (x8), 120 - 200ns, Top Boot	TSOP40
4 Mb	M28W431	4 Mb (x8), 120 - 200ns, Top Boot	TSOP40

FLASH MEMORY SINGLE VOLTAGE, 5V

Size	References	Description	Package
1 Mb	M29F100T	1 Mb (x8 or x16), 70 - 150ns, Top Boot	SO44, TSOP48
	M29F100B	1 Mb (x8 or x16), 70 - 150ns, Bottom Boot	SO44, TSOP48
2 Mb	M29F200T	2 Mb (x8 or x16), 70 - 150ns, Top Boot	SO44, TSOP48
	M29F200B	2 Mb (x8 or x16), 70 - 150ns, Bottom Boot	SO44, TSOP48
	M29F002T	2 Mb (x8), 70 - 120ns, Top Boot	PLCC32, PDIP32
4 Mb	M29F040	4 Mb (x8), 70 - 150ns, Block	PLCC32, TSOP32
	M29F400T	4 Mb (x8 or x16), 70 - 150ns, Top Boot	SO44, TSOP48
	M29F400B	4 Mb (x8 or x16), 70 - 150ns, Bottom Boot	SO44, TSOP48

FLASH MEMORY SINGLE VOLTAGE, 3V

Size	References	Description	Package
4 Mb	M29W040	4 Mb (x8), 100 - 150ns, Block	PLCC32, TSOP32
	M29W400T	4 Mb (x8 or x16), 100 - 150ns, Top Boot	TSOP48, SO44
	M29W400B	4 Mb (x8 or x16), 100 - 150ns, Bottom Boot	TSOP48, SO44
	M29W004T	4 Mb (x8), 100 - 150ns, Top Boot	TSOP40
	M29W004B	4 Mb (x8), 100 - 150ns, Bottom Boot	TSOP40
8 Mb	M29W800T	8 Mb (x8 or x16), 100 - 150ns, Top Boot	TSOP48, SO44
	M29W800B	8 Mb (x8 or x16), 100 - 150ns, Bottom Boot	TSOP48, SO44
	M29W008T	8 Mb (x8), 100 - 150ns, Top Boot	TSOP40
	M29W008B	8 Mb (x8), 100 - 150ns, Bottom Boot	TSOP40
	M29R800T	8 Mb (x8 or x16), 100 - 200ns, Top Boot, 1.8V read	TSOP48, SO44
	M29R800B	8 Mb (x8 or x16), 100 - 200ns, Bottom Boot, 1.8V read	TSOP48, SO44
	M29R008T	8 Mb (x8), 100 - 200ns, Top Boot, 1.8V read	TSOP40
	M29R008B	8 Mb (x8), 100 - 200ns, Bottom Boot, 1.8V read	TSOP40

SERIAL EEPROM I²C - Eagle Range: 4.5V to 5.5V

Size	References	Description	Package
1 Kb	M24C01	1 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
2 Kb	M24C02	2 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
4 Kb	M24C04	4 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
8 Kb	M24C08	8 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
16 Kb	M24C16	16 Kb (x8), 400kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
32 Kb	M24C32	32 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, SO8 Wide
64 Kb	M24C64	64 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, SO8 Wide
128 Kb	M24128	128 Kb (x8), 400 kHz, 10ms, Write, Write Control	PSDIP8, SO8, SO8 Wide
256 Kb	M24256	256 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8 Wide

NON VOLATILE MEMORIES**SERIAL EEPROM I²C - Eagle Range: 2.5V to 5.5V**

Size	References	Description	Package
1 Kb	M24C01-W	1 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
2 Kb	M24C02-W	2 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
4 Kb	M24C04-W	4 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
8 Kb	M24C08-W	8 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
16 Kb	M24C16-W	16 Kb (x8), 400kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
32 Kb	M24C32-W	32 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, SO8 Wide
64 Kb	M24C64-W	64 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, SO8 Wide
128 Kb	M24128-W	128 Kb (x8), 400 kHz, 10ms, Write, Write Control	PSDIP8, SO8, SO8 Wide
256 Kb	M24256-W	256 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8 Wide

SERIAL EEPROM I²C - Eagle Range: 1.8V to 5.5V

Size	References	Description	Package
1 Kb	M24C01-R	1 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
2 Kb	M24C02-R	2 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
4 Kb	M24C04-R	4 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
8 Kb	M24C08-R	8 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
16 Kb	M24C16-R	16 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, TSSOP8
32 Kb	M24C32-R	32 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, SO8 Wide
64 Kb	M24C64-R	64 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8, SO8 Wide
128 Kb	M24128-R	128 Kb (x8), 400 kHz, 10ms, Write, Write Control	PSDIP8, SO8, SO8 Wide
256 Kb	M24256-R	256 Kb (x8), 400 kHz, 10ms Write, Write Control	PSDIP8, SO8 Wide

SERIAL EEPROM I²C - 3V to 5.5V

Size	References	Description	Package
1 Kb	* ST24C01	1 Kb (x8), 100 kHz, 10ms Write	PSDIP8, SO8
	* ST24W01	1 Kb (x8), 100 kHz, 10ms Write, Write Control	PSDIP8, SO8
2 Kb	* ST24C02	2 Kb (x8), 100 kHz, 10ms Write	PSDIP8, SO8
	* ST24W02	2 Kb (x8), 100 kHz, 10ms Write, Write Control	PSDIP8, SO8
4 Kb	ST24C04	4 Kb (x8), 100 kHz, 10ms Write, Block Protect	PSDIP8, SO8
	ST24W04	4 Kb (x8), 100 kHz, 10ms Write, Write Control, Block Protect	PSDIP8, SO8
8 Kb	ST24C08	8 Kb (x8), 100 kHz, 10ms Write, Block Protect	PSDIP8, SO8
	ST24W08	8 Kb (x8), 100 kHz, 10ms Write, Write Control, Block Protect	PSDIP8, SO8
16 Kb	ST24C16	16 Kb (x8), 100 kHz, 10ms Write, Block Protect	PSDIP8, SO8
	ST24W16	16 Kb (x8), 100 kHz, 10ms Write, Write Control, Block Protect	PSDIP8, SO8
	ST24E16	16 Kb (x8), 400 kHz, 10ms Write, Write Control, Ext. Addressing	PSDIP8, SO8

* Not for New design, use M24 Eagle Range

SERIAL EEPROM I²C - 2.5V to 5.5V

Size	References	Description	Package
1 Kb	* ST25C01	1 Kb (x8), 100 kHz, 10ms Write	PSDIP8, SO8
	* ST25W01	1 Kb (x8), 100 kHz, 10ms Write, Write Control	PSDIP8, SO8
2 Kb	* ST25C02	2 Kb (x8), 100 kHz, 10ms Write	PSDIP8, SO8
	* ST25W02	2 Kb (x8), 100 kHz, 10ms Write, Write Control	PSDIP8, SO8
4 Kb	ST25C04	4 Kb (x8), 100 kHz, 10ms Write	PSDIP8, SO8
	ST25W04	4 Kb (x8), 100 kHz, 10ms Write, Write Control, Block Protect	PSDIP8, SO8
8 Kb	ST25C08	8 Kb (x8), 100 kHz, 10ms Write, Block Protect	PSDIP8, SO8
	ST25W08	8 Kb (x8), 100 kHz, 10ms Write, Write Control, Block Protect	PSDIP8, SO8
16 Kb	ST25C16	16 Kb (x8), 100 kHz, 10ms Write Protect	PSDIP8, SO8
	ST25W16	16 Kb (x8), 100 kHz, 10ms Write, Write Control, Block Protect	PSDIP8, SO8
	ST25E16	16 Kb (x8), 400 kHz, 10ms Write, Write Control, Ext. Addressing	PSDIP8, SO8

* Not for New design, use M24 Eagle Range

SERIAL EEPROM, MICROWIRE - Eagle Range: 4.5V to 5.5V

Size	References	Description	Package
256 b	M93C06	256 b (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
1 Kb	M93C46	1 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S46	1 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
2 Kb	M93C56	2 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S56	2 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
4 Kb	M93C66	4 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S66	4 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
16 Kb	M93C86	16 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8

SERIAL EEPROM, MICROWIRE - Eagle Range: 2.5V to 5.5V

Size	References	Description	Package
256 b	M93C06-W	256 b (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
1 Kb	M93C46-W	1 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S46-W	1 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
2 Kb	M93C56-W	2 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S56-W	2 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
4 Kb	M93C66-W	4 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S66-W	4 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
16 Kb	M93C86-W	16 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8

NON VOLATILE MEMORIES**SERIAL EEPROM, MICROWIRE - Eagle Range: 1.8V to 5.5V**

Size	References	Description	Package
256 b	M93C06-R	256 b (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
1 Kb	M93C46-R	1 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S46-R	1 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
2 Kb	M93C56-R	2 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S56-R	2 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
4 Kb	M93C66-R	4 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
	M93S66-R	4 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
16 Kb	M93C86-R	16 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8

SERIAL EEPROM, MICROWIRE - 4.5V to 5.5V

Size	References	Description	Package
256 b	* ST93C06	256 b (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
1 Kb	* ST93C46C	1 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
2 Kb	ST93C56	2 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8
4 Kb	ST93C66	4 Kb (x8 or x16), 1 MHz, 10ms Write	PSDIP8, SO8

SERIAL EEPROM, MICROWIRE - 3V to 5.5V

Size	References	Description	Package
1 Kb	* ST93CS46	1 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
2 Kb	* ST93CS56	2 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
4 Kb	* ST93CS66	4 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO14

SERIAL EEPROM, MICROWIRE - 2.5V to 5.5V

Size	References	Description	Package
1 Kb	* ST93CS47	1 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
2 Kb	* ST93CS57	2 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8
4 Kb	* ST93CS67	4 Kb (x16), 1 MHz, 10ms Write, Write Protection	PSDIP8, SO8

* Not for New design, use M93 Eagle Range

SERIAL EEPROM, SPI - Eagle Range 4.5V to 5.5V

Size	References	Description	Package
8 Kb	M95080	8 Kb (x8), 5 MHz, 10 ms Write, Write Protection, Positive Clock	PSDIP8, SO8
16 Kb	M95160	16 Kb (x8), 5 MHz, 10 ms Write, Write Protection, Positive Clock	PSDIP8, SO8
64 Kb	M95640	64 Kb (x8), 5 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
256 Kb	M95560	256 Kb (x8), 5 MHz, 10 ms Write, Write Protection, Positive Clock	PSDIP8, SO8

SERIAL EEPROM, SPI - Eagle Range 2.5V to 5.5V

Size	References	Description	Package
8 Kb	M95080-W	8 Kb (x8), 2 MHz, 10 ms Write, Write Protection, Positive Clock	PSDIP8, SO8
16 Kb	M95160-W	16 Kb (x8), 2 MHz, 10 ms Write, Write Protection, Positive Clock	PSDIP8, SO8
64 Kb	M95640-W	64 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
256 Kb	M95560-W	256 Kb (x8), 2 MHz, 10 ms Write, Write Protection, Positive Clock	PSDIP8, SO8

SERIAL EEPROM, SPI - 4.5V to 5.5V

Size	References	Description	Package
1 Kb	ST95010	1 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
2 Kb	ST95020	2 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
4 Kb	ST95040	4 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
	ST95041	4 Kb (x8), 2 MHz, 10ms Write, Write Protection, Negative Clock	PSDIP8, SO8
8 Kb	* ST95P08	8 Kb (x8), 1 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8

* Not for New design, use M95 Eagle Range

SERIAL EEPROM, SPI - 2.5V to 5.5V

Size	References	Description	Package
1 Kb	ST95010W	1 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
2 Kb	ST95020W	2 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8
4 Kb	ST95040W	4 Kb (x8), 2 MHz, 10ms Write, Write Protection, Positive Clock	PSDIP8, SO8

APPLICATION SPECIFIC MEMORIES

References	Supply (min)	Description	Package
M24164	5V	16 Kb (x8) Serial EEPROM, 400kHz, 10ms Write, Write Control	PSDIP8, SO8
M24164-W	2.5V	16 Kb (x8) Serial EEPROM, 400kHz, 10ms Write, Write Control	PSDIP8, SO8
M24164-R	1.8V	16 Kb (x8) Serial EEPROM, 400kHz, 10ms Write, Write Control	PSDIP8, SO8
ST24164	4.5V	16 Kb (x8) Serial EEPROM, 100kHz, 10ms Write, Write Control	PSDIP8, SO8
ST25164	2.5V	16 Kb (x8) Serial EEPROM, 100kHz, 10ms Write, Write Control	PSDIP8, SO8
M34C02	4.5V	2 Kb (x8) Serial EEPROM for DIMM Serial Presence Detect	PSDIP8, SO8, TSSOP8
M34C02-W	2.5V	2 Kb (x8) Serial EEPROM for DIMM Serial Presence Detect	PSDIP8, SO8, TSSOP8
M34C02-R	1.8V	2 Kb (x8) Serial EEPROM for DIMM Serial Presence Detect	PSDIP8, SO8, TSSOP8
M39432-V	3V	FLASH+ 4Mb Flash and 256K EEPROM	TSOP40
ST24LC21B	3.5V	1 Kb (x8) Dual Mode Serial EEPROM for VESA 1.0 Plug & Play	PSDIP8, SO8
ST24LW21	3.5V	1 Kb (x8) Dual Mode Serial EEPROM for VESA 1.0 Plug & Play	PSDIP8, SO8
ST24FC21	3.5V	1 Kb (x8) Dual Mode Serial EEPROM for VESA 2.0 Plug & Play	PSDIP8, SO8
ST24FW21	3.5V	1 Kb (x8) Dual Mode Serial EEPROM for VESA 2.0 Plug & Play	PSDIP8, SO8

NON VOLATILE MEMORIES**PARALLEL EEPROM - Eagle Range: 4.5V to 5.5V**

Size	References	Description	Package
16 Kb	* M28C16	16 Kb (x8), 90 - 150ns, 5ms Write	PLCC32, TSOP28
	* M28C17	16 Kb (x8), 90 - 150ns, 5ms Write, Ready-Busy Output	PDIP28 (**), PLCC32, SO28
64 Kb	M28C64	64 Kb (x8), 90 - 150ns, 3ms Write, Ready-Busy Output, SDP	PDIP28 (**), PLCC32, SO28, TSOP28
256 Kb	M28256	256 Kb (x8), 90 - 200ns, 5ms Write, SDP	PDIP28, PLCC32, SO28, TSOP32

* Consult M28C16A data sheet.

** Upon specific request. Please contact your local sales office.

PARALLEL EEPROM - Eagle Range: 2.7V to 5.5V

Size	References	Description	Package
64 Kb	M28C64-W	64 Kb (x8), 120 - 200ns, 3ms Write, Ready-Busy Output, SDP	PDIP28 (**), PLCC32, SO28, TSOP28
256 Kb	M28256-W	256 Kb (x8), 120 - 200ns, 5ms Write, SDP	PDIP28, PLCC32, SO28, TSOP32

** Upon specific request. Please contact your local sales office.

PARALLEL EEPROM 4.5V to 5.5V

Size	References	Description	Package
16 Kb	* M28C16	16 Kb (x8), 90 - 150ns, 3ms Write, SDP	PLCC32, TSOP28
	* M28C17	16 Kb (x8), 90 - 150ns, 3ms Write, Ready-Busy Output, SDP	PDIP28(**), PLCC32, SO28
64 Kb	* M28C64C	64 Kb (x8), 150 - 250ns, 5ms Write, Ready-Busy Output	PDIP28, PLCC32, SO28, TSOP28

* Not for new designs, use M28 Eagle Range.

** Upon specific request. Please contact your local sales office.

PARALLEL EEPROM 2.7V to 3.6V

Size	References	Description	Package
16 Kb	* M28LV16	16 Kb (x8), 90 - 150ns, 3ms Write	PLCC32, TSOP28
	* M28LV17	16 Kb (x8), 90 - 150ns, 3ms Write, Ready-Busy Output	PDIP28 (**), PLCC32, SO28

* Not for new designs, use M28 Eagle Range.

** Upon specific request. Please contact your local sales office.

ZEROPOWER

Size	References	Description	Package
16 Kb	M48Z02 M48Z12	16 Kb (x8), 120/150/200ns, 5V +10/-5%, 10 year battery 16 Kb (x8), 150/200ns, 5V +/-10%, 10 year battery	PCDIP24 PCDIP24
64 Kb	M48Z08 M48Z18 M48Z09 M48Z19 M48Z58 M48Z58Y M48Z59 M48Z59Y	64 Kb (x8), 100ns, 5V +10/-5%, 11 year battery 64 Kb (x8), 100ns, 5V +/-10%, 11 year battery 64 Kb (x8), 100ns, 5V +10/-5%, 11 year battery, Power Fail Interrupt 64 Kb (x8), 100ns, 5V +/-10%, 11 year battery, Power Fail Interrupt 64 Kb (x8), 70ns, 5V +10/-5%, 10 year battery 64 Kb (x8), 70ns, 5V +/-10%, 10 year battery 64 Kb (x8), 70ns, 5V +10/-5%, 10 year battery, Reset Output 64 Kb (x8), 70ns, 5V +/-10%, 10 year battery, Reset Output	PCDIP28 PCDIP28, SOH28 PCDIP28 PCDIP28, SOH28 PCDIP28 PCDIP28, SOH28 PCDIP28 PCDIP28
256 Kb	M48Z35 M48Z35Y M48Z35V	256 Kb (x8), 70ns, 5V +10/-5%, 10 year battery 256 Kb (x8), 70ns, 5V +/-10%, 10 year battery 256 Kb (x8), 70ns, 3.3V +/-10%, 10 year battery	PCDIP28 PCDIP28, SOH28 PCDIP28, SOH28
1 Mb	M48Z128 M48Z128Y M48Z128V M48Z129Y	1 Mb (x8), 70/85/120ns, 5V +10/-5%, 10 year battery 1 Mb (x8), 70/85/120ns, 5V +/-10%, 10 year battery 1 Mb (x8), 85/120ns, 3.3V +/-10%, 10 year battery 1 Mb (x8), 70ns, 5V +/-10%, 10 year battery, Reset Output, Battery Low Output	PMDIP32 PMDIP32 PMDIP32 PMDIP32
4 Mb	M48Z512A M48Z512AY M48Z512AV	4 Mb (x8), 70/85ns, 5V +10/-5%, 10 year battery 4 Mb (x8), 70/85ns, 5V +/-10%, 10 year battery 4 Mb (x8), 85ns, 3.3V +/-10%, 10 year battery	PMDIP32 PMDIP32 PMDIP32
16 Mb	M48Z2M1 M48Z2M1Y	16 Mb (x8), 70ns, 5V +10/-5%, 10 year battery 16 Mb (x8), 70ns, 5V +/-10%, 10 year battery	PLDIP36 PLDIP36

TIMEKEEPER

Size	References	Description	Package
512 b	MK41T56	512 b (x8), 5V ± 10%, I ² C serial bus	PSDIP8, SO8
1 Kb	M48T86	1 Kb (x8), 5V ± 10%, A/D Mux, Alarms, Battery Low Flag, Square Wave, AM/PM	PCDIP24, SOH28
16 Kb	M48T02 M48T12	16 Kb (x8), 120/150/200ns, 5V + 10/-5%, 10 year battery 16 Kb (x8), 150/200ns, 5V ± 10%, 10 year battery	PCDIP24 PCDIP24
64 Kb	M48T08 M48T18 M48T58 M48T58Y M48T59 M48T59Y M48T59Y	64 Kb (x8), 100/150ns, 5V + 10/-5%, 10 year battery 64 Kb (x8), 100/150ns, 5V ± 10%, 10 year battery 64 Kb (x8), 70ns, 5V +10/-5%, 7 year battery 64 Kb (x8), 70ns, 5V ± 10%, 7 year battery 64 Kb (x8), 70ns, 5V +10/-5%, 7 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up 64 Kb (x8), 70ns, 5V ± 10%, 7 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up 64 Kb (x8), 70ns, 5V ± 10%, 7 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up, Push-Button Reset	PCDIP28 PCDIP28, SOH28 PCDIP28 PCDIP28, SOH28 PCDIP28 PCDIP28, SOH28 SOH28
256 Kb	M48T35 M48T35Y M48T37Y M48T37V M48T39Y	256 Kb (x8), 70ns, 5V +10/-5%, 10 year battery 256 Kb (x8), 70ns, 5V ± 10%, 10,7 year battery 256 Kb (x8), 70ns, 5V ± 10%, 7 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up, Century 256 Kb (x8), 100ns, 3.3V ± 10%, 7 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up, Century 256 Kb (x8), 70ns, 5V ± 10%, 10 year battery, Watchdog, Reset Output, Alarms, Wake-up, Square Wave, AM/PM, 0.01 sec	PCDIP28 PCDIP28, SOH28 SOH44 SOH44 PMDIP32
1 Mb	M48T128Y M48T128V M48T129Y M48T129V	1 Mb (x8), 70ns, 5V ± 10%, 10 year battery 1 Mb (x8), 85ns, 3.3V ± 10%, 10 year battery 1 Mb (x8), 70ns, 5V ± 10%, 10 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up, Push-Button Reset, Square Wave, Century 1 Mb (x8), 85ns, 3.3V ± 10%, 10 year battery, Same features as M48T129Y above.	PMDIP32 PMDIP32 PMDIP32 PMDIP32
4 Mb	M48T512Y M48T512V M48T513Y M48T513V	4 Mb (x8), 70ns, 5V +/-10%, 10 year battery 4 Mb (x8), 85ns, 3.3V +/-10%, 10 year battery 4 Mb (x8), 70ns, 5V +/-10%, 10 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up, Push-Button Reset, Square Wave, Century 4 Mb (x8), 85ns, 3.3V +/-10%, 10 year battery, Same as M48T513Y above.	PMDIP32 PMDIP32 PLDIP36 PLDIP36

NON VOLATILE MEMORIES**CONTROLLERS**

Size	References	Description	Package
1 Mb to 4 Mb	M40Z111	NVRAM Controller, 5V, selectable Power-fail Deselect voltage, controls 1Mb or 4Mb LPSRAM	SOH28
	M40Z111V	NVRAM Controller, 3.0/3.3V, selectable Power-fail Deselect voltage, controls 1Mb or 4Mb LPSRAM	SOH28
1 Mb to 16 Mb	M40Z300	NVRAM Controller, 5V, selectable Power-fail Deselect voltage, controls up to four 1Mb or 4Mb LPSRAMs, Reset Output, Battery Low Output	SOH28
	M40Z300V	NVRAM Controller, 3.0/3.3V, selectable Power-fail Deselect voltage, controls up to four 1Mb or 4Mb LPSRAMs, Reset Output, Battery Low Output	SOH28
1 Mb to 4 Mb	M48T201Y	TIMEKEEPER Controller (x8), 70ns, 5V +/-10%, 10 year battery, Watchdog, Reset Output, Alarms, Battery Low Flag, Wake-up, Push-Button Reset, Square Wave, Century	SOH44
	M48T201V	TIMEKEEPER Controller (x8), 85ns, 3.3V +/-10%, same features as M48T201Y above	SOH44

SNAPHAT

References	Description	Package
M4Z28-BR00SH1	Lithium battery (49mAh) for ZEROPOWER Products & NVRAM Controllers	SH
M4Z32-BR00SH1	Lithium battery (120mAh) for NVRAM Controllers	SH
M4T18-BR12SH1	Lithium battery (49mAh) and Crystal for M48T18 only	SH
M4T28-BR12SH1	Lithium battery (49mAh) and Crystal for TIMEKEEPER Products	SH
M4T32-BR12SH1	Lithium battery (120mAh) and Crystal for TIMEKEEPER Controllers	SH