

# EEPROM, NVRAM

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## Memories

### Overview

Serial EEPROMs are byte-alterable, low pin-count, non-volatile memories suited for flexible parameter management, and small code storage where robust data retention, low power and space constraints are critical. ST's leading-edge product portfolio is constantly updated to fit the requirements of mobile, consumer, industrial, and medical segments participating in the Internet of Things (IoT) as well as automotive applications for Smart Driving solutions.

Serial Page EEPROMs are ultra-low power page-erasable, low pin-count memories extending ST memories family to higher densities. Our Serial Page EEPROM portfolio is designed to mix parameter, datalog and firmware management to ease integration in ultra-low power embedded systems.

NVRAMs are battery-backed SRAMs that range from 16 Kbits to 32 Mbits, housed in DIP packages, which include a battery, or surface-mount SOIC packages that allow for a SNAPHAT replaceable battery. Timekeeping and clock functions are also available.



**Memories / NVRAM/Battery Options**

<b>Part Number</b>	<b>General Description</b>	<b>Battery Type</b>
M4Z28-BR00SH	ZEROPOWER® SNAPHAT® battery	Lithium Coin Cell - 48mAh
M4Z32-BR00SH	ZEROPOWER® SNAPHAT® battery	Lithium Coin Cell - 120mAh

**Memories / NVRAM/ZEROPOWER**

<b>Part Number</b>	<b>Package</b>	<b>Memory Organization</b>	<b>Supply Voltage (V) min</b>	<b>Supply Voltage (V) max</b>	<b>Operating Range</b>	<b>Battery Low Detect</b>
M48Z02	PDIP 24 .7	16Kb (2K x 8)	4.75	5.5	Commercial	true
M48Z08	PDIP 28 .7	64Kb (8K x 8)	4.75	5.5	Commercial	-
M48Z12	PDIP 24 .7	16Kb (2K x 8)	4.5	5.5	Commercial	true
M48Z18	PDIP 28 .7	64Kb (8K x 8)	4.5	5.5	Commercial	-
M48Z35	PDIP 28 .7	256Kb (32K x 8)	4.75	5.5	Commercial	-
M48Z35Y	PDIP 28 .7,SOH28	256Kb (32K x 8)	4.5	5.5	Commercial	-
M48Z58	PDIP 28 .7	64Kb (8K x 8)	4.75	5.5	Commercial	-
M48Z58Y	PDIP 28 .7,SOH28	64Kb (8K x 8)	4.5	5.5	Commercial	-

Memories / Serial EEPROM/Automotive Serial EEPROM

Part Number	Serial Interface	Storage Capacity (kb) spec	Temperature range (°C)	Package	Supply Voltage (V) min	Clock Frequency (MHz) max	Specific features
M24128-A125	I2C	128	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24256-A125	I2C	256	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24512-A125	I2C	512	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24C02-A125	I2C	2	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24C04-A125	I2C	4	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24C08-A125	I2C	8	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24C16-A125	I2C	16	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24C32-A125	I2C	32	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24C64-A125	I2C	64	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	1	Lockable ID page
M24M01-A125	I2C	1024	-40 to 125	SO8,TSSOP-8L	2.5	1	Lockable ID page
M24M02-A125	I2C	2048	-40 to 125	SO8	2.5	1	Lockable ID page
M93C46-A125	Microwire	1	-40 to 125	SO8,TSSOP-8L	1.8	2	-
M93C56-A125	Microwire	2	-40 to 125	SO8,TSSOP-8L	1.8	2	-
M93C66-A125	Microwire	4	-40 to 125	SO8,TSSOP-8L	1.8	2	-
M93C76-A125	Microwire	8	-40 to 125	SO8,TSSOP-8L	1.8	2	-
M93C86-A125	Microwire	16	-40 to 125	SO8,TSSOP-8L	1.8	2	-
M95020-A125	SPI	2	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95040-A125	SPI	4	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95040-A145	SPI	4	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95080-A125	SPI	8	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95080-A145	SPI	8	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95128-A125	SPI	128	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95128-A145	SPI	128	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95160-A125	SPI	16	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95160-A145	SPI	16	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95256-A125	SPI	256	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95256-A145	SPI	256	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95320-A125	SPI	32	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95320-A145	SPI	32	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95512-A125	SPI	512	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	16	Lockable ID page
M95512-A145	SPI	512	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95640-A125	SPI	64	-40 to 125	DFN8,SO8,TSSOP-8L	1.7	20	Lockable ID page
M95640-A145	SPI	64	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95M01-A125	SPI	1024	-40 to 125	SO8,TSSOP-8L	2.5	16	Lockable ID page
M95M01-A145	SPI	1024	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page
M95M02-A125	SPI	2048	-40 to 125	DFN8,SO8,TSSOP-8L	2.5	10	Lockable ID page
M95M04-A125	SPI	4096	-40 to 125	SO8,TSSOP-8L	2.5	10	Lockable ID page
M95M04-A145	SPI	4096	-40 to 145	TSSOP-8L	2.5	10	Lockable ID page

**Memories / Serial EEPROM/SPD EEPROM**

Part Number	Specific features	Serial Interface	Storage Capacity (kb) spec	Grade	Supply Voltage (V) min	Clock Frequency (MHz) max	Package	Number of Erase/write Cycles (M Cycles) min
M34E02-F	Compatible DDR1/DDR2/DDR3	I2C	2	Industrial	1.7	0.4	TSSOP-8L,UFD8FN8	1
M34E04	For DDR4 with Write protect pin	I2C	4	Industrial	1.7	0.4	UFD8FN8	4
M34E04B	Compatible DDR4	I2C	4	Industrial	1.7	0.4	UFD8FN8	4

Memories / Serial EEPROM/Standard Serial EEPROM

Part Number	Package	Serial Interface	Storage Capacity (kb) spec	Temperature range (°C)	Specific features	Supply Voltage (V) min	Clock Frequency (MHz) max	Number of Erase/write Cycles (M Cycles) min
M24128-BF	DFN5,S08,TSSOP-8L,UFDFPN8,WAFER	I2C	128	-40 to 85	-	1.6	1	4
M24128-BR	S08,TSSOP-8L	I2C	128	-40 to 85	-	1.8	1	4
M24128-DF	S08,TSSOP-8L,UFDFPN8,WLCSP	I2C	128	-40 to 85	Lockable ID page	1.7	1	4
M24128-DRE	S08,TSSOP-8L	I2C	128	-40 to 105	Lockable ID page	1.7	1	4
M24128X-FCU	WLCSP ULTRA-THIN	I2C	128	-40 to 85	Software write protection - Configurable chip enable address	1.6	1	4
M24256-BF	TSSOP-8L,UFDFPN8,WAFER	I2C	256	-40 to 85	-	1.7	1	4
M24256-DF	S08,TSSOP-8L,UFDFPN8,WLCSP	I2C	256	-40 to 85	Lockable ID page	1.7	1	4
M24256-DRE	S08,TSSOP-8L	I2C	256	-40 to 105	Lockable ID page	1.7	1	4
M24256E-F	DFN5,S08,TSSOP-8L	I2C	256	-40 to 85	Lockable ID page - Configurable chip enable address	1.6	1	4
M24256X-F	WLCSP ULTRA-THIN	I2C	256	-40 to 85	Software write protection - Configurable chip enable address - Lockable ID page	1.6	1	4
M24512-DF	S08,TSSOP-8L,UFDFPN8,WAFER,WLCSP	I2C	512	-40 to 85	Lockable ID page	1.7	1	4
M24512-DRE	S08,TSSOP-8L	I2C	512	-40 to 105	Lockable ID page	1.7	1	4
M24512E-F	S08,TSSOP-8L	I2C	512	-40 to 85	Software Write protection - Configurable chip enable address - Lockable ID page	1.6	1	4
M24C01-R	S08,TSSOP-8L	I2C	1	-40 to 85	-	1.8	0.4	4
M24C02-DRE	S08,TSSOP-8L	I2C	2	-40 to 105	Lockable ID page	1.7	1	4
M24C02-F	DFN5,S08,TSSOP-8L,UFDFPN8	I2C	2	-40 to 85	-	1.6	0.4	4
M24C02-R	S08,TSSOP-8L,UFDFPN8	I2C	2	-40 to 85	-	1.8	0.4	4
M24C04-DRE	S08,TSSOP-8L	I2C	4	-40 to 105	Lockable ID page	1.7	1	4
M24C04-F	DFN5,S08,TSSOP-8L,UFDFPN8	I2C	4	-40 to 85	-	1.6	0.4	4
M24C04-R	S08,TSSOP-8L,UFDFPN8	I2C	4	-40 to 85	-	1.8	0.4	4
M24C08-DRE	S08,TSSOP-8L	I2C	8	-40 to 105	Lockable ID page	1.7	1	4
M24C08-F	DFN5,S08,TSSOP-8L,UFDFPN8,WLCSP	I2C	8	-40 to 85	-	1.6	0.4	4
M24C08-R	S08,TSSOP-8L,UFDFPN8	I2C	8	-40 to 85	-	1.8	0.4	4
M24C16-DFCU	WLCSP ULTRA-THIN	I2C	16	-40 to 85	Lockable ID page	1.6	1	4
M24C16-DRE	S08,TSSOP-8L	I2C	16	-40 to 105	Lockable ID page	1.7	1	4
M24C16-F	DFN5,S08,TSSOP-8L,UFDFPN8,WAFER	I2C	16	-40 to 85	-	1.6	0.4	4
M24C16-R	S08,TSSOP-8L,UFDFPN8	I2C	16	-40 to 85	-	1.8	0.4	4
M24C32-DF	S08,TSSOP-8L,UFDFPN8	I2C	32	-40 to 85	Lockable ID page	1.7	1	4
M24C32-DRE	S08,TSSOP-8L	I2C	32	-40 to 105	Lockable ID page	1.7	1	4
M24C32-F	DFN5,S08,TSSOP-8L,UFDFPN8,WAFER	I2C	32	-40 to 85	-	1.6	1	4
M24C32-R	S08,TSSOP-8L	I2C	32	-40 to 85	-	1.8	1	4
M24C64-DF	S08,TSSOP-8L,UFDFPN8,WLCSP	I2C	64	-40 to 85	Lockable ID page	1.7	1	4
M24C64-DRE	S08,TSSOP-8L	I2C	64	-40 to 105	Lockable ID page	1.7	1	4
M24C64-F	DFN5,S08,TSSOP-8L,UFDFPN8,WAFER,WLCSP,WLCSP ULTRA-THIN	I2C	64	-40 to 85	-	1.6,1.7	1	4
M24C64-R	S08,TSSOP-8L	I2C	64	-40 to 85	-	1.8	1	4
M24C64X-FCU	WLCSP ULTRA-THIN	I2C	64	-40 to 85	Software write protection - Configurable chip enable address	1.6	1	4
M24M01-DF	S08,TSSOP-8L,WAFER,WLCSP	I2C	1024	-40 to 85	Lockable ID page	1.7	1	4
M24M01E-F	S08,TSSOP-8L	I2C	1024	-40 to 85	Software Write protection - Configurable chip enable address - Lockable ID page	1.6	1	4
M24M02-DR	S08,WLCSP	I2C	2048	-40 to 85	Lockable ID page	1.8	1	4
M93C46-W	S08,TSSOP-8L	Microwire	1	-40 to 85	-	2.5	2	4
M93C56-R	S08,TSSOP-8L	Microwire	2	-40 to 85	-	1.8	2	4
M93C56-W	S08,TSSOP-8L	Microwire	2	-40 to 85	-	2.5	2	4
M93C66-R	UFDFPN8	Microwire	4	-40 to 85	-	1.8	2	4
M93C66-W	S08,TSSOP-8L	Microwire	4	-40 to 85	-	2.5	2	4
M93C76-R	TSSOP-8L	Microwire	8	-40 to 85	-	1.8	2	4
M93C76-W	S08	Microwire	8	-40 to 85	-	2.5	2	4
M93C86-R	S08,TSSOP-8L,UFDFPN8	Microwire	16	-40 to 85	-	1.8	2	4
M93C86-W	S08,TSSOP-8L	Microwire	16	-40 to 85	-	2.5	2	4
M93S46-W	S08	Microwire	1	-40 to 85	Programmable Block Protection	2.5	2	4
M93S56-W	S08	Microwire	2	-40 to 85	Programmable Block Protection	2.5	2	4
M93S66-W	S08	Microwire	4	-40 to 85	Programmable Block Protection	2.5	2	4
M95010-R	S08,TSSOP-8L	SPI	1	-40 to 85	-	1.8	20	4
M95020-R	S08,TSSOP-8L	SPI	2	-40 to 85	-	1.8	20	4
M95040-DF	S08,TSSOP-8L,UFDFPN8	SPI	4	-40 to 85	Lockable ID page	1.7	20	4
M95040-DRE	S08,TSSOP-8L	SPI	4	-40 to 105	Lockable ID page	1.7	20	4
M95040-R	S08,TSSOP-8L,UFDFPN8	SPI	4	-40 to 85	-	1.8	20	4
M95080-DF	S08,TSSOP-8L,UFDFPN8	SPI	8	-40 to 85	Lockable ID page	1.7	20	4
M95080-DRE	S08,TSSOP-8L	SPI	8	-40 to 105	Lockable ID page	1.7	20	4
M95080-R	S08,TSSOP-8L,UFDFPN8	SPI	8	-40 to 85	-	1.8	20	4
M95128-DF	S08,TSSOP-8L,UFDFPN8,WLCSP	SPI	128	-40 to 85	Lockable ID page	1.7	20	4
M95128-DRE	S08,TSSOP-8L	SPI	128	-40 to 105	Lockable ID page	1.7	20	4
M95128-R	S08,TSSOP-8L,UFDFPN8	SPI	128	-40 to 85	-	1.8	20	4
M95160-DF	S08,TSSOP-8L,UFDFPN8,WAFER	SPI	16	-40 to 85	Lockable ID page	1.7	20	4
M95160-DRE	S08,TSSOP-8L	SPI	16	-40 to 105	Lockable ID page	1.7	20	4
M95160-R	S08,TSSOP-8L,UFDFPN8	SPI	16	-40 to 85	-	1.8	20	4
M95256-DF	S08,TSSOP-8L,UFDFPN8,WLCSP	SPI	256	-40 to 85	Lockable ID page	1.7	20	4
M95256-DRE	S08,TSSOP-8L	SPI	256	-40 to 105	Lockable ID page	1.7	20	4
M95256-R	S08,TSSOP-8L,UFDFPN8	SPI	256	-40 to 85	-	1.8	20	4
M95320-DF	S08,TSSOP-8L,UFDFPN8	SPI	32	-40 to 85	Lockable ID page	1.7	20	4
M95320-DRE	S08,TSSOP-8L	SPI	32	-40 to 105	Lockable ID page	1.7	20	4
M95320-R	S08,TSSOP-8L,UFDFPN8	SPI	32	-40 to 85	-	1.8	20	4
M95512-DF	S08,TSSOP-8L,UFDFPN8,WAFER,WLCSP	SPI	512	-40 to 85	Lockable ID page	1.7	16	4
M95512-DRE	S08,TSSOP-8L	SPI	512	-40 to 105	Lockable ID page	1.7	16	4
M95512-R	S08,TSSOP-8L	SPI	512	-40 to 85	-	1.8	16	4

M95640-DF	SO8,TSSOP-8L,UFDFFPN8,WLCSP	SPI	64	-40 to 85	Lockable ID page	1.7	20	4
M95640-DRE	SO8,TSSOP-8L	SPI	64	-40 to 105	Lockable ID page	1.7	20	4
M95640-R	SO8,TSSOP-8L,UFDFFPN8	SPI	64	-40 to 85	-	1.8	20	4
M95M01-DF	SO8,TSSOP-8L,WAFER,WLCSP	SPI	1024	-40 to 85	Lockable ID page	1.7	16	4
M95M01-R	SO8,TSSOP-8L	SPI	1024	-40 to 85	-	1.8	16	4
M95M02-DR	SO8,WLCSP	SPI	2048	-40 to 85	Lockable ID page	1.8	5	4
M95M04-DR	SO8,TSSOP-8L,WLCSP	SPI	4096	-40 to 85	Lockable Identification Page	1.8	10	4
M24128-BW	SO8,TSSOP-8L	I2C	128	-40 to 85	-	2.5	1	4
M24256-BR	SO8,TSSOP-8L	I2C	256	-40 to 85	-	1.8	1	4
M24256-BW	SO8,TSSOP-8L	I2C	256	-40 to 85	-	2.5	1	4
M24256-DR	TSSOP-8L	I2C	256	-40 to 85	Lockable ID page	1.8	1	4
M24512-R	SO8,TSSOP-8L	I2C	512	-40 to 85	-	1.8	1	4
M24512-W	SO8,TSSOP-8L	I2C	512	-40 to 85	-	2.5	1	4
M24C01-W	SO8,TSSOP-8L	I2C	1	-40 to 85	-	2.5	0.4	4
M24C02-W	SO8,TSSOP-8L	I2C	2	-40 to 85	-	2.5	0.4	4
M24C04-W	SO8,TSSOP-8L	I2C	4	-40 to 85	-	2.5	0.4	4
M24C08-W	SO8,TSSOP-8L	I2C	8	-40 to 85	-	2.5	0.4	4
M24C16-W	SO8,TSSOP-8L	I2C	16	-40 to 85	-	2.5	0.4	4
M24C32-W	SO8,TSSOP-8L	I2C	32	-40 to 85	-	2.5	1	4
M24C64-W	SO8,TSSOP-8L	I2C	64	-40 to 85	-	2.5	1	4
M24M01-R	SO8,TSSOP-8L	I2C	1024	-40 to 85	-	1.8	1	4
M95010-W	SO8,TSSOP-8L	SPI	1	-40 to 85	-	2.5	20	4
M95020-W	SO8,TSSOP-8L	SPI	2	-40 to 85	-	2.5	20	4
M95040-W	SO8,TSSOP-8L	SPI	4	-40 to 85	-	2.5	20	4
M95080-W	SO8,TSSOP-8L	SPI	8	-40 to 85	-	2.5	20	4
M95128-W	SO8	SPI	128	-40 to 85	-	2.5	20	4
M95160-W	SO8,TSSOP-8L	SPI	16	-40 to 85	-	2.5	20	4
M95256-W	SO8,TSSOP-8L	SPI	256	-40 to 85	-	2.5	20	4
M95320-W	SO8,TSSOP-8L	SPI	32	-40 to 85	-	2.5	20	4
M95512-W	SO8,TSSOP-8L	SPI	512	-40 to 85	-	2.5	16	4
M95640-W	SO8,TSSOP-8L	SPI	64	-40 to 85	-	2.5	20	4



**Memories/Standard Serial Page EEPROM**

Part Number	General Description	Storage Capacity (kb) spec	Serial Interface	Clock Frequency (MHz) max	Supply Voltage (V) min	Supply Voltage (V) max	Temperature range (°C)	Package
M95P08-E	Ultra low-power 8-Mbit serial SPI page EEPROM with extended temperature range	8192	SPI	80	1.6	3.6	-40 to 105	SO-8
M95P08-I	Ultra low-power 8 Mbit Serial SPI Page EEPROM	8192	SPI	80	1.6	3.6	-40 to 85	SO-8
M95P16-I	Ultra low-power 16 Mbit Serial SPI Page EEPROM	16384	SPI	80	1.6	3.6	-40 to 85	SO-8
M95P32-I	Ultra low-power 32 Mbit Serial SPI Page EEPROM	32768	SPI	80	1.6	3.6	-40 to 85	SO-8,WLCSP-R 5

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