

STMICROELECTRONICS EEPROMs & Non-Volatile RAMs



Products may be RoHS compliant.
Check mouser.com for RoHS status.

Memory

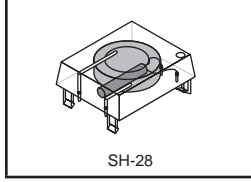
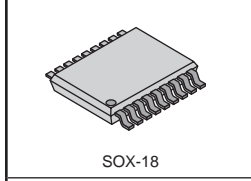
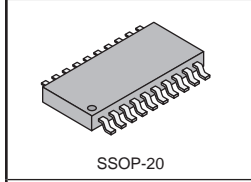
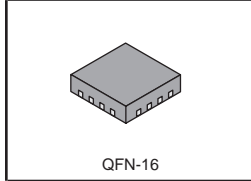
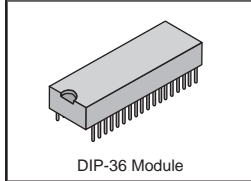
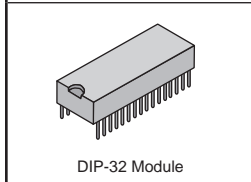
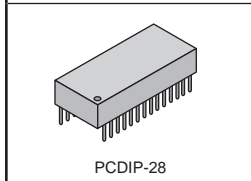
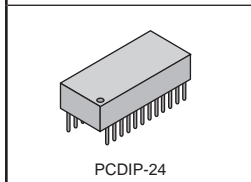
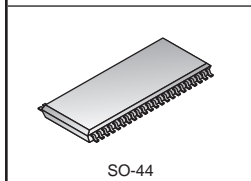
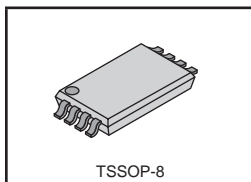
STMicroelectronics

DUAL INTERFACE EEPROMS

Dual Interface EEPROMs from STMicroelectronics are an innovative family of memories that provides new features and capabilities. The EEPROM memory bank can be accessed either by a standard PC interface or by an ISO 15693 RF interface. The TSSOP 15693 RF interface is based on a passive RFID technology that does not require a battery or power to operate, as it gets both the energy and the data stream from the RF reader.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Density	Interface		Clock Freq. (Max)(kHz)	Temp. Range (°C)	Supply Voltage (V)	Price Each		
				I ² C	RF - ISO				1	10	100
Surface Mount											
511-M24LR64-RMN6T/2	M24LR64-RMN6T/2	SO-8	64K	2-Wire	15693/18000-3	400	-40 to +85	5.0	3.08	2.64	2.15
511-M24LR64-RDW6T/2	M24LR64-RDW6T/2	TSSOP-8	64K	2-Wire	15693/18000-3	400	-40 to +85	5.0	3.08	2.64	2.15



STARTER, DEMONSTRATION AND DEVELOPMENT KITS

ST provides tools for system designers to help determine the remote operating distance they can expect from the device and the impact of the reader antenna, as well as impact of reader and IC antenna sizes on the overall system performance. They also allow evaluation of interaction of I2C and RF modes, entire memory, partitioning, lock mechanisms and password protection. All tools come with an PC programmer, an RF reader, two different M24LR64 reference antennas with PC connector. Connections to host computers are USB based.

MOUSER STOCK NO.	STMicroelectronics Part No.	Description	Price Each
511-STARTKIT-M24LR-A	STARTKIT-M24LR-A	Starter (evaluation, proof-of-concept) kit for M24LR series	174.00
511-DEMOKIT-M24LR-A	DEMOKIT-M24LR-A	Demonstration kit for M24LR series dual interface EEPROMs	506.25
511-DEVKIT-M24LR-A	DEVKIT-M24LR-A	Development (advanced evaluation) kit for M24LR series	975.00

ZEROPOWER® NON-VOLATILE RAMS

ZEROPOWER® NVRAMs combine Low Power SRAMs and Automatic Battery Switchover and Write Protect circuits to implement Non-Volatile RAMs. They can be used just like standard SRAMs, but retain their contents when power is removed. Densities range from 16Mbits down to 16Kbits.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Density	Organization	Access Time (ns)	Temp. Range (°C)	Supply Voltage (V)	Nominal Battery Cap. (mAh)	Price Each		
									1	10	100
Thru Hole											
511-M48Z0270PC1	M48Z02-70PC1	PCDIP-24	16K	2K X 8	70	0 to 70	4.75 to 5.5	-	10.21	9.18	7.63
511-M48Z0215PC1	M48Z02-150PC1	PCDIP-24	16K	2K X 8	150	0 to 70	4.75 to 5.5	-	11.22	10.02	8.22
511-M48Z1215PC1	M48Z12-150PC1	PCDIP-24	16K	2K X 8	150	0 to 70	4.5 to 5.5	-	12.76	11.56	9.76
511-M48Z0810PC1	M48Z08-100PC1	PCDIP-28	64K	8K X 8	100	0 to 70	4.75 to 5.5	-	17.59	15.91	13.39
511-M48Z1810PC1	M48Z18-100PC1	PCDIP-28	64K	8K X 8	100	0 to 70	4.5 to 5.5	-	18.30	16.62	14.10
511-M48Z58Y70PC1	M48Z58Y-70PC1	PCDIP-28	64K	8K X 8	70	0 to 70	4.5 to 5.5	-	17.33	15.75	13.38
511-M48Z5870PC1	M48Z58-70PC1	PCDIP-28	64K	8K X 8	70	0 to 70	4.75 to 5.5	-	15.59	14.01	11.64
511-M48Z35Y70PC1	M48Z35Y-70PC1	PCDIP-28	256K	32K X 8	70	0 to 70	4.5 to 5.5	-	18.32	16.49	13.75
511-M48Z3570PC1	M48Z35-70PC1	PCDIP-28	256K	32K X 8	70	0 to 70	4.75 to 5.5	-	18.32	16.49	13.75
Snapat Battery and Crystal for Realtime Clocks											
511-M4Z28BR00SH1	M4Z28-BR00SH1	SH-28	For SOH-28 Zeropower SRAMs			0 to 70	-	48.0	5.88	5.22	4.17

TIMEKEEPER® NON-VOLATILE RAMS

TIMEKEEPER® NVRAMs build on ST's ZEROPOWER® NVRAMs by adding non-volatile Real-Time Clocks. The Automatic Battery Switchover and Write Protect circuits are extended to the RTC section where counter-registers keep track of year, month, day, date, hours, minutes, and seconds. A low-power 32KHz oscillator provides the timing. It is optimized to draw only a tiny amount of current - as low as 40nA - so it adds only a small additional load to the battery. The RTC registers are mapped into the LPSRAM. Eight to 16 bytes of the LPSRAM are replaced by the RTC registers. The day, date, and time are read and written just like RAM locations.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	STMicroelectronics Part No.	Package Type	Density	Organization	Access Time (ns)	Temp. Range (°C)	Supply Voltage (V)	Nominal Battery Cap. (mAh)	Price Each		
									1	10	100
Thru Hole											
511-M48T0270PC1	M48T02-70PC1	PCDIP-24	16K	2K x 8	70	0 to 70	4.75 to 5.5	-	9.69	9.46	8.81
511-M48T5870PC1	M48T58-70PC1	PCDIP-28	64K	8K x 8	70	0 to 70	4.75 to 5.5	-	21.84	20.20	17.19
511-M48T0810PC1	M48T08-100PC1	PCDIP-28	64K	8K x 8	100	0 to 70	4.75 to 5.5	-	18.32	16.49	13.75
511-M48T1810PC1	M48T18-100PC1	PCDIP-28	64K	8K x 8	100	0 to 70	4.5 to 5.5	-	18.32	16.49	13.75
511-M48T35Y70PC1	M48T35Y-70PC1	PCDIP-28	256K	32K x 8	70	0 to 70	4.5 to 5.5	-	18.32	16.49	13.75
511-M48T3570PC1	M48T35-70PC1	PCDIP-28	256K	32K x 8	70	0 to 70	4.75 to 5.5	-	18.32	16.49	13.75
Next Generation Timekeeper® Non-Volatile RAMs											
511-M41T83RQA6F	M41T83RQA6F	QFN-16	Serial I2C Bus w/Battery Switchover			-40 to +85	2.7 to 5.5	-	5.46	4.83	3.74
511-M41ST87WSS6F	M41ST87WSS6F	SSOP-20	Serial RTC with NVRAM Supervisor			-40 to +85	3.0 to 3.6	-	6.63	5.50	5.00
511-M41T93ZMY6F	M41T93ZMY6F	SOX-18	Serial SPI Bus w/Battery Switchover			-40 to +85	2.38 to 5.5	-	5.83	5.24	4.27
Snapat Battery & Crystal for Timekeeper Non-Volatile RAMs											
511-M4T28BR12SH1	M4T28-BR12SH1	SH-28	For SOH-28 & 44 realtime clocks			0 to 70	-	48	6.26	5.57	4.48
511-M4T32BR12SH1	M4T32-BR12SH1	SH-28	For SOH-28 & 44 realtime clocks			0 to 70	-	120	9.14	8.17	6.61
511-M4T32-BR12SH6	M4T32-BR12SH6	SH-28	For SOH-28 & 44 realtime clocks			-40 to +85	-	120	10.06	8.98	7.26