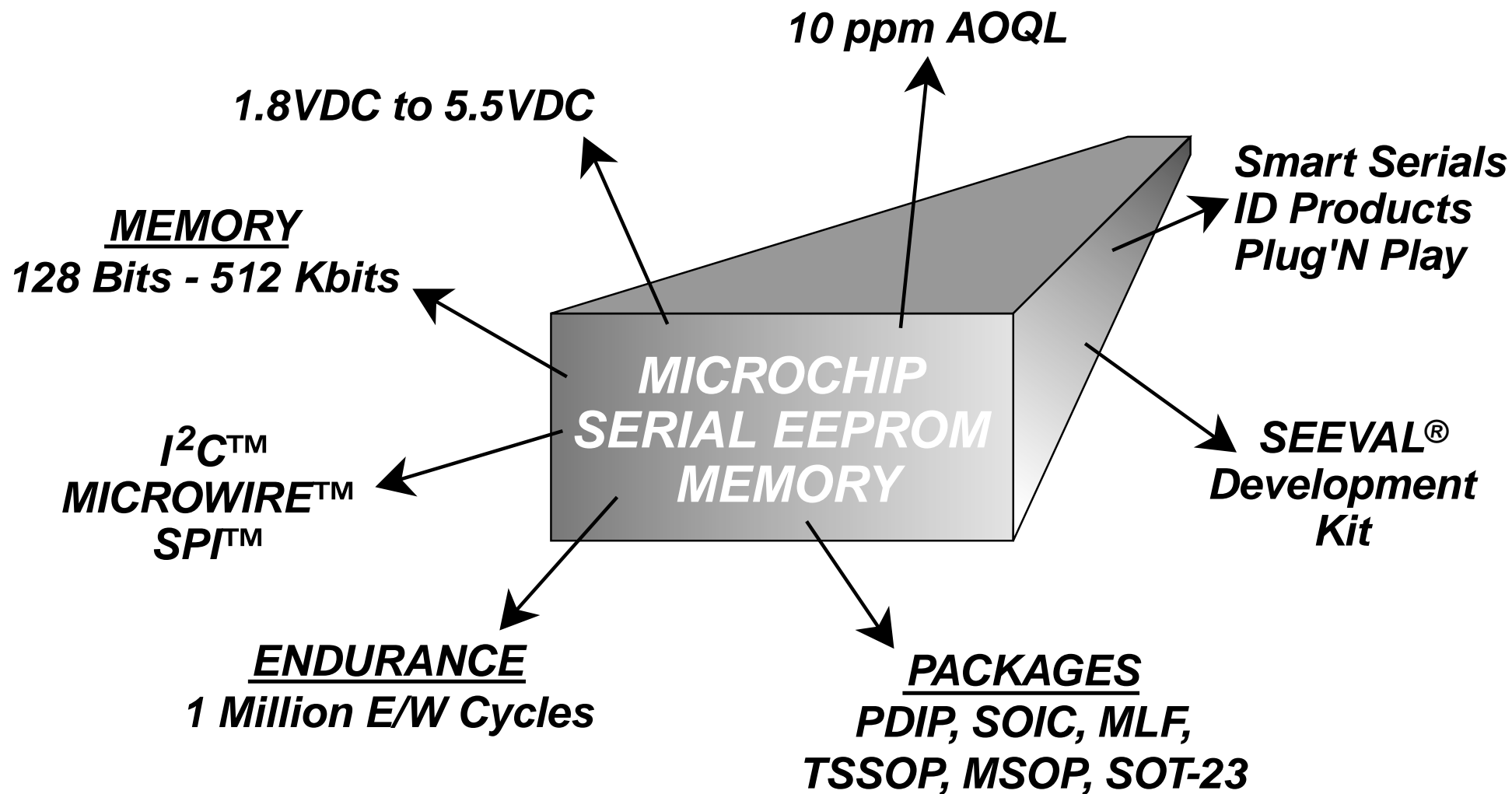


# SERIAL EEPROM CROSS REFERENCE GUIDE

## 1st. Edition 2002

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Size (bits)	MCHP Part #	Atmel Part #	Catalyst Part #	Fairchild Part #	Philips / Signetics Part #	Rohm Part #	ST Part #	Xicor Part #	
<b>128 to 512K I<sup>2</sup>C Devices (Microchip's I<sup>2</sup>C, B revision devices do not use address pins A0, A1 and A2. These pins have no internal connection.)</b>									
128	24C00 T- t / p								
128	24LC00 T- t / p							X24C00 pt-v	
1K	24AA01 T- t / p	AT24C01-10-pt-v T	CAT24WC01-pt-v T				M24C01-vptT		
1K	24C01B T- t / p				PCA8581-p	BR24C01A-p-W T			
1K	24LC01B T- t / p				PCA8581C-p				X24C01-pt-v
1K	24C01C T- t / p	AT24C01A-10-pt-v T	CAT24WC01-pt-v T		PCA8581-p		M24C01-vptT	X24C01-pt-v	
1K	24LC014 T- t / p	AT24C01A-10-pt-v T	CAT24WC01-pt-v T		PCA8581C-p		M24C01-vptT	X24012	
1K	24LC21 T- t / p	AT24C21-10-pt-v T			PCB2421C-p		ST24LC21B-ptT		
1K	24LC21A T- t / p					BR24C21-p-T	ST24FC21-ptT		
1K	24LCS21 T- t / p						ST24LW21-ptT		
1K	24LCS21A T- t / p						ST24FW21-ptT		
2K	24AA02 T- t / p	AT24C02d-10-pt-v T	CAT24WC02-pt-v T				M24C02-vptT		
2K	24C02B T- t / p				FM24C02U-fvtp	PCF8582C-2-p		BR24C02-p-T	
2K	24LC02B T- t / p								
2K	24C02C T- t / p	AT24C02d-10-pt-v T	CAT24WC02-pt-v T	FM24C02U-fvtp	PCF8582C-2-p		M24C02-vptT	X24C02-pt-v	
2K	24LC024 T- t / p	AT24C02d-10-pt-v T	CAT24WC02-pt-v T		PCF8582C-2-p		M24C02-vptT	X24C02-pt-v	
2K	24LC025 T- t / p								
2K	24LCS52 T- t / p						M34C02, M34C02-W		
4K	24AA04 T- t / p	AT24C04d-10-pt-v T	CAT24WC04-pt-v T				M24C04-vptT		
4K	24C04B T- t / p				FM24C04U-fvtp	PCF8594C-2-p		BR24C04-p-T	X24C04-pt-v
4K	24LC04B T- t / p								
8K	24AA08 T- t / p	AT24C08d-10-pt-v T	CAT24WC08-pt-v T				M24C08-vptT		
8K	24C08B T- t / p				FM24C08U-fvtp	PCF8598C-2-p		BR24C08-p-T	X24C08-pt-v
8K	24LC08B T- t / p								
16K	24AA16 T- t / p	AT24C164d-10-pt-v T	CAT24WC16-pt-v T				M24C16-vptT		
16K	24C16B T- t / p				FM24C16U-fxvtp	PCF85116-3-p		BR24C16-p-T	X24C16-pt-v
16K	24LC16B T- t / p								X24C164-pt-v
32K	24AA32A T- t / p	AT24C32d-10-pt-v T	CAT24WC32-pt-v T				M24C32-vptT	X24320-pt-v	
32K	24C32A T- t / p							BR24C32-p-T	
32K	24LC32A T- t / p								
64K	24AA64 T- t / p	AT24C64d-10-pt-v T	CAT24WC64-pt-v T				M24C64-vptT		
64K	24C64 T- t / p				NM24C65U-fxvtp			BR24C64-p-T	X24645-pt-v
64K	24LC64 T- t / p								
64K	24C65 T- t / p								
64K	24LC65 T- t / p								
128K	24AA128 T- t / p	AT24C128d-10-pt-v T	CAT24WC128-pt-v T				M24C128-B-vptT		
128K	24C128 T- t / p								X24128-pt-v
128K	24LC128 T- t / p								
256K	24AA256 T- t / p	AT24C256d-10-pt-v T	CAT24WC256-pt-v T				M24C256-A-vptT		
256K	24C256 T- t / p				FM24C256-fvtpT				X24C256-pt-v
256K	24LC256 T- t / p								
512K	24AA515 T- t / p	AT24C512d-10-pt-v T					M24512-vptT		
512K	24LC515 T- t / p								

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Size (bits)	MCHP Part #	Atmel Part #	Catalyst Part #	Fairchild Part #	Philips / Signetics Part #	Rohm Part #	ST Part #	Xicor Part #
<b>4K to 64K SPI Devices</b>								
4K	25AA040 T- t / p	AT25040d-10-pt-v T	CAT25WC04-pt-v T		NM25C040-vtp		ST95040-vptTR M95040-vptT	X25040-pt-v X25057-pt-v (5 MHz)
4K	25C040 T- t / p							
4K	25LC040 T- t / p							
8K	25AA080 T- t / p	AT25080d-10-pt-v T	CAT25WC08-pt-v T				ST95080-vptTR	
8K	25C080 T- t / p	AT25080d-10-pt-v T	CAT25WC08-pt-v T				M95080-vptT	
8K	25LC080 T- t / p							X25097-pt-v (5 MHz)
16K	25AA160 T- t / p	AT25160d-10-pt-v T	CAT25WC16-pt-v T		NM25C160-vtp		M95160-vptT	X25160-pt-v X25170-pt-v (5 MHz)
16K	25C0160 T- t / p							
16K	25LC160 T- t / p							
16K	25AA320 T- t / p	AT25320d-10-pt-v T	CAT25WC32-pt-v T				M95320-vptT	X25320-pt-v
32K	25C320 T- t / p							
32K	25LC320 T- t / p							
64K	25AA640 T- t / p	AT25640d-10-pt-v T	CAT25WC64-pt-v T		NM25C640-vtp		M95640-vptT	X25642-pt-v X25650-pt-v (5 MHz)
64K	25C640 T- t / p							
64K	25LC640 T- t / p							
<b>1K to 16K Microwire Devices;</b> Microchip supports 8-bit mode: 93XX46A/56A/66A (No ORG pin)    16-bit mode: 93XX46B/56B/66B (No ORG pin)    8-bit/16-bit mode: 93XX46/56/76/86 (ORG pin used to select mode)								
1K	93AA46 T- t / p	AT93C46d-10-pt-v T (X8 / X16 bit)	CAT93C46-pt-v T (X8 / X16 bit)		FM93C46A-xvtp (X8 / X16 bit)		M93C46-xvptT (X8 / X16 bit)	
1K	93C46 T- t / p							
1K	93LC46 T- t / p							
1K	93LC46A T- t / p		CAT93C46-pt-v T (set to 8-bit mode)		FM93C46A-xvtp (set to 8-bit mode)		M93C46-xvptT (set to 8-bit mode)	
1K	93C46B T- t / p	AT93C46A-10-pt-v T (X16 bit)	CAT93C46-pt-v T (set to 16-bit mode)		FM93C46-xvtp (X16 bit)	BR93LL46-p-T	M93C46-xvptT (set to 16-bit mode)	
1K	93LC46B T- t / p							
2K	93AA56 T- t / p							
2K	93C56 T- t / p	AT93C56-10-pt-v T (X8 / X16 bit)	CAT93C56-pt-v T (X8 / X16 bit)		FM93C56A-xvtp (X8 / X16 bit)		M93C56-xvptT (X8 / X16 bit)	
2K	93LC56 T- t / p							
2K	93C56A T- t / p	AT93C56-10-pt-v T (set to 8-bit mode)	CAT93C56-pt-v T (set to 8-bit mode)		FM93C56A-xvtp (set to 8-bit mode)		M93C56-xvptT (set to 8-bit mode)	
2K	93LC56A T- t / p							
2K	93C56B T- t / p							
2K	93LC56B T- t / p	AT93C56-10-pt-v T (set to 16-bit mode)	CAT93C56-pt-v T (set to 16-bit mode)		FM93C56-xvtp (X16 bit)	BR93LC56-p-T	M93C56-xvptT (set to 16-bit mode)	
4K	93AA66 T- t / p	AT93C66-10-pt-v T (X8 / X16 bit)	CAT93C66-pt-v T (X8 / X16 bit)		FM93C66A-xvtp (X8 / X16 bit)		M93C66-xvptT (X8 / X16 bit)	
4K	93C66 T- t / p							
4K	93LC66T- t / p							
4K	93C66A T- t / p	AT93C66-10-pt-v T (set to 8-bit mode)	CAT93C66-pt-v T (set to 8-bit mode)		FM93C66A-xvtp (set to 8-bit mode)		M93C66-xvptT (set to 8-bit mode)	
4K	93LC66A T- t / p							
4K	93C66B T- t / p							
4K	93LC66B T- t / p	AT93C66-10-pt-v T (set to 16-bit mode)	CAT93C66-pt-v T (set to 16-bit mode)		FM93C66-xvtp (X16 bit)	BR93LC66-p-T	M93C66-xvptT (set to 16-bit mode)	
8K	93AA76 T- t / p						M93C76-xvptT (X8 / X16 bit)	
8K	93C76 T- t / p							
8K	93LC76 T- t / p							
16K	93AA86 T- t / p	AT93C86-10-pt-v T (X8 / X16 bit)	CAT93C86-pt-v T (X8 / X16 bit)		NM93C86A-xvtp (X8 / X16 bit)		M93C86-xvptT (X8 / X16 bit)	
16K	93C86 T- t / p							
16K	93LC86 T- t / p							

## LEGEND FOR SERIAL EEPROM CROSS REFERENCE GUIDE

(Optional Packages, Temperatures and Voltages Selected Below.)

Ordering Parameters	MCHP Part #	Atmel Part #	Catalyst Part #	Fairchild Part #	Philips / Signetics Part #	Rohm Part #	ST Part #	Xicor Part #
<b>Package Types</b>	<b>p = Package</b>	<b>p = Package (d = Alt pkg type)</b>	<b>p = Package</b>	<b>p = Package</b>	<b>p = Package</b>	<b>P = Package</b>	<b>p = Package</b>	<b>p = Package</b>
5-SOT-23	OT							
8-PDIP	P	P	P	N	P	Blank	BN or B	P
8-SOIC (.150)	SN	S (d = N)	J	M8	T	F = 8-SOP (Tight fit)	MN or M	S8 or Blank
8-SOIC (.208)	SM	S (d = W)			T (8K only)	FJ = SOP J8	MW	A8
14-SOIC		S (d = )					MJ	
16-SOIC							MJ	
8-MSOP	MS	M						M
8-TSSOP (4.4mm)	ST	T	U	MT8		FV	DW	
14-TSSOP (4.4mm)	ST14	T (d = T1)	U14				DL	V14
8-MLF-S	MF							
8-LAP		C						
8-Wide LAP		C1					ZL	
8-LGA								
8-dBGA		U3, U4						
5-DBGA							EA	
<b>Packages with Rotated Pinouts</b>				<b>X = Pinout Type</b>			<b>X = Pinout Type</b>	
Normal Pinout	Standard			Blank			Blank	
Rotated 90°	X in part number			R			T	
<b>Tubes / Tape &amp; Reel</b>	<b>T = optional T/R</b>	<b>T = optional T/R</b>	<b>T = optional T/R</b>	<b>T = optional T/R</b>		<b>T = optional T/R</b>	<b>T = optional T/R</b>	<b>T = optional T/R</b>
Tubes	Blank	Blank	Blank	Blank		Blank	Blank	Blank
Tape & Reel	T	T or TR	TE13	TE13		E2	T or TR	T
<b>Temperature Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>	<b>t = Temp Range</b>
0°C to +70°C	C	C	Blank	Blank			Blank	Blank
-40°C to +85°C	I	I	I	E			6	I
-40°C to +125°C	E			V			3	
-20°C to +85°C					All Devices		5	
-40°C to +105°C			A					
<b>Operating Voltage</b>	<b>Voltage</b>	<b>v = Voltage</b>	<b>v = Voltage</b>	<b>v = Voltage</b>	<b>Voltage</b>	<b>Voltage</b>	<b>v = Voltage</b>	<b>v = Voltage</b>
4.5V to 5.5V	C			H or Blank	Blank (1K only)		Blank	
2.5V to 5.5V	LC	2.5	2.5		C or Blank		W	2.5
2.7V to 5.5V		2.7	2.7	L or LZ		LC		AB or AD
2.7V to 3.6V							V	
2.2V to 5.5V							L	
1.8V to 3.6V						LL	R or S	
1.8V to 5.5V	AA	1.8					R	
<b>Miscellaneous</b>				<b>f = Frequency</b>				
				Blank = 100 kHz F = 400 kHz				

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### MICROCHIP PACKAGE OPTIONS FOR SEEPROMS (Xmm x Ymm x Zmm)

#### PLASTIC SMALL OUTLINE



8-Lead SOIC (SN)  
(4.9mm x 6mm x 1.5mm)



8-Lead SOIC (SM)  
(5.2mm x 8mm x 1.97mm)

#### PLASTIC DUAL IN-LINE



8-Lead PDIP (P)  
(9.5mm x 7.9mm x 3.94mm)

#### MICRO LEAD FRAME



8-Lead MLF (MF)  
(6mm x 4.9mm x 0.91mm)

#### SMALL OUTLINE TRANSISTOR



5-Lead SOT-23 (OT)  
(2.8mm x 2.95mm x 1.2mm)

#### PLASTIC SHRINK SMALL OUTLINE



8-Lead MSOP (MS)  
(4.9mm x 3mm x 1.1mm)

#### PLASTIC THIN SHRINK SMALL OUTLINE



8-Lead TSSOP (ST)  
(6.38mm x 3mm x 1.1mm)



14-Lead TSSOP (ST14)  
(5mm x 6.38mm x 1.1mm)

NOTE: Dimensions include leads.

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