

## 🏰 MAJOR PRODUCT LINE 🏰

<b><u>Micro-controller Line</u></b>	<p><b><u>4-bit m C - General purpose</u></b> , Application specific for Telecom , Home appliance , Time keeping , Remote controller , Handheld game , toy.</p> <p><b><u>8-bit m C – General purpose</u></b> , Application specific for Telecom , Home appliance , Data bank , Security , Charger , PC peripheral .</p>
<b><u>PC Peripheral Line</u></b>	<p><u>Mouse controller</u> , <u>Keyboard controller</u> , <u>Flash A/D converter</u> , Single chip scanner controller.</p>
<b><u>Consumer Line</u></b>	<p><u>Simple voice synthesizer IC</u> , <u>I/O enhanced voice synthesizer IC</u> , <u>Programmable voice synthesizer with dual channel</u> melody/sound effect generator. Voice recoder IC , Talking watch , Talking calculator , 8/10/12-digit calculator.</p>
<b><u>Telecom Line</u></b>	<p><u>Telephone dialer</u> , <u>Feature phone</u> , <u>Cordless phone</u> , <u>Caller ID</u> , <u>Tape-based TAD &amp; DSP based all digital TAD controller</u>.</p>
<b><u>Memory Line</u></b>	<p>ROM with capacity from 256K to 32M.</p>

note :\* -- Under development.

瀏覽產品詳細資料時請先安裝  Internet Downl: [Acrobat Reader](#)



[Home](#) |  [Consumer](#) |  [Mcu](#) |  [Memory](#) |  [Telecom](#) |  [Pc](#) | [Customer Service](#)

## ● 4-BIT MICRO-CONTROLLER PRODUCT LINE ●

4-BIT $\mu$ C FOR GENERAL PRUPOSE PRODUCT														
Part No.	Total pins	VDD (V)	ROM (byte)	RAM (nibble)	I/P	O/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	Serial Interface	Infrared control	Watch dog timer	Low Voltage Dector
EM73200	22	2.4~5.5	2048	52	4	4	8	4	1	2	-	✓	-	-
EM73201	27	2.4~5.5	2048	52	4	4	8	4	1	2	-	✓	✓	-
EM73202	27	2.4~5.5	2048	52	4	4	8	4	1	2	-	-	✓	-
EM73290	34	2.4~5.5	2048	116	4	8	15	5	2	2	-	-	-	-
EM73400	42	2.4~5.5	4096	244	5	8	23	5	2	2	✓	-	-	-
EM73A01	28	1.8~3.6	16384	116	8	8*	4*	8	2	-	-	-	✓	✓

4-BIT $\mu$ C FOR SPEECH PRODUCT															
Part No.	Total Pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	O/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	LCD	Sound Gen.	High Speed Counter	Speed
EM73220	26	3.0~4.5	2048	116	Dual	4	8	6	6	1	1	-	-	-	20 Sec.

**4-BIT  $\mu$ C FOR TELECOM PRODUCT**

Part No.	Total Pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	O/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	Serial interface	Watch Dog Timer	LCD	Sound Gen.	dtmf Gen.	Other
<a href="#">EM73470</a>	42	4.0~5.0	4096	244	Single	3	0	23	1	2	2	-	-	-	✓	-	Analog switch
<a href="#">EM73491</a>	29	2.4~5.0	4096	244	Single	5	1	16	5	2	2	-	-	-	-	✓	-
<a href="#">EM73492</a>	42	2.4~5.0	4096	756	Single	5	3	27	5	2	2	✓	-	-	-	✓	-
<a href="#">EM73676</a>	60	4.0~5.0	6144	244	Single	3	0	19	1	2	2	-	✓	-	✓	-	A.S. AMP. DTMF Rec
<a href="#">EM73895</a>	79	2.4~5.0	8192	756	Dual	4	1	24	-	2	2	✓	✓	32x4	-	✓	-
<a href="#">EM73896</a>	80	2.4~5.0	8192	756	Dual	4	1	24	-	2	2	✓	✓	32x4	✓	✓	-

**4-BIT  $\mu$ C FOR LCD PRODUCT (81 POINTS)**

Part No.	Total Pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	Watch Dog Timer	LCD	Sound Gen.	High Speed Counter
<a href="#">EM73360L</a>	46	1.5	3072	52	Single	4	2	4	2(Timer)	1	-	27x3	✓	-
<a href="#">EM73361</a>	46	3.0	3072	52	Single	4	16**	4	2(Timer)	2	✓	27x3	✓	-
<a href="#">EM73362</a>	49	1.5	3072	52	Single	4	16**	4	1(Timer)	2	✓	27x3	-	✓

**4-BIT  $\mu$ C FOR LCD PRODUCT (128,320 POINTS)**

Part No.	Total Pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	I/O	Wake-up pins	Timer/ Counter	External Interrupt	LCD	Sound Gen.
<a href="#">EM73460</a>	56	3.0/4.5	4096	244	Single	4	8	8	2	2	32x4	✓
<a href="#">EM73862</a>	65	3.0	8192	372	Single	4	5	8	2	2	40x8	✓
<a href="#">EM73962</a>	68	3.0/4.5	16384	372	Single	4	8	8	2	2	40x8	✓

**4-BIT  $\mu$ C FOR LCD PRODUCT (128,320 POINTS)**

Part No.	Total Pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	LCD	Sound Gen.	High Speed counter	Speech
<a href="#">EM73461/469</a>	62	3.0/1.5	4096	244	Dual	4	8	8	2	2	32x4	✓	✓	-
*EM73880	63	3.0	8192	244	Dual	4	8	8	2	2	32x4	✓	✓	26 sec.
<a href="#">EM73883</a>	73	3.0/ 4.5	8K	372	Dual	4	8	8	2	2	40x8	✓	-	10sec.

<a href="#">EM73963</a>	74	3.0/4.5	16384	372	Dual	4	5	8	2	2	40x8	✓	-	-
<a href="#">EM73982</a>	74	3.0/4.5	16384	372	Single	4	8	8	2	2	40x8	✓	4 sec.	-
<a href="#">EM73983</a>	74	3.0/4.5	16384	500	Dual	4	8	8	2	2	40x8	✓	-	26sec.

4-BIT $\mu$ C FOR LCD PRODUCT (640, 1024 POINTS)													
Part No.	Total pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	LCD	Sound Gen.	Speech
<a href="#">EM73A63</a>	82	3.0/4.5	32768	500	Dual	4	8	8	2	2	40x16	✓	-
<a href="#">EM73A83</a>	82	3.0/4.5	16384	500	Dual	4	8	8	2	2	40x16	✓	26 sec.
<a href="#">EM73A88</a>	109	3.0/4.5	16384	500	Dual	4	8	8	2	2	64x16	✓	75 sec.

note :\* -- Under development.

\*\* -- Some pins are shared with LCD segment pins.

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## ● 8-BIT MICRO-CONTROLLER PRODUCT LINE ●

### 8-BIT $\mu$ C FOR GENERAL PURPOSE MCU

EM NO.	Voltage	ROM	RAM	I/O	INT(E/I)	Timer/Counter	Other spec	Pin no.
EM78P152A/B	2.3~5.5	512x13	48x8	6/12	3(1/2)	8-bitx1	OPT	8/14
EM78P153A/B							Voltage detector	

<a href="#">EM78156</a> EM78256 <a href="#">EM78456</a>	2.5~5.5	1Kx13 2Kx13 4Kx13	56x8	12	3(1/2)	8-bitx1	Voltage Detector	18
EM78451	2.3	4Kx13	157x8	32	3(1/2)	3x8-bitx1	EM78450 SPI	40
EM78458	2.5~5.5	4Kx13	56x8	12	3(1/2)	8-bitx1	8-CHL A/D PWM Compurator	24/20
<a href="#">EM78P156</a>	2.5~5.5	1Kx13	56x8	12	3(1/2)	8-bitx1	OPT Voltage detector	18
EM78447A/B	2.5~5.5	4Kx13	157x8	20/24	3(1/2)	8-bitx1	-	28/32
EM78P447A/B	2.3~5.5	4Kx13	157x8	20/24	3(1/2)	8-bitx1	OPT	28/32
EM78450	2.5~5.5	4Kx13	157x8	32	3(1/2)	8-bitx1	-	40
EM78P451	2.3~5.5	4Kx13	157x8	32	3(1/2)	3x8-bitx1	OPT type EM78448 EM78450 EM78451 SPI	40

### 8-BIT $\mu$ C FOR TELECOM PRODUCT

EM NO.	Voltage	ROM	RAM	I/O	INT(E/I)	LCD	Timer/ Counter	Other spec	Pin no.
EM78467A/B	2.5~5.5	4Kx13	157x8	20/24	3(1/2)	-	8-bitx1	Low EMI	28/32
*EM78800	2.5~5.5	8Kx13	512x8	24	7(4/3)	40x16	8-bitx3	FSK,DTMF	80
<a href="#">EM78810</a>	2.5~5.5	8Kx13	1.3Kx8	40	7(4/3)	60x16	8-bitx3	FSK,DTMF	100
<a href="#">EM78811</a>	2.5~5.5	16Kx13	2.8Kx8	32	8(4/4)	60x16	8-bitx3	FSK,DTMF	100
*EM78911	2.5~5.5	16Kx13	2.8Kx8	40	7(4/3)	60x16	8-bitx3	FSK,DTMF, Call Waiting	100

### 8-BIT $\mu$ C FOR CONSUMER PRODUCT

EM NO.	Voltage	ROM	RAM	I/O	INT(E/I)	LCD	Timer/Counter	Other spec	Pin no.
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EM78P467A/B	2.5~5.5	4Kx13	157x8	20/24	3(1/2)	-	8-bitx1	Low EMI, OPT Type	28/32
EM78448	2.5~5.5	4Kx13	157x8	32	7(4/3)	-	8-bitx1	Precise RC, OSC	40
<a href="#">EM78820</a>	2.5~5.5	8Kx13	400x8	12	7(4/3)	40x16	8-bitx2	16Kx8 Data ROM, 3V LCD	80
<a href="#">EM78822</a>	2.5~3.5	8Kx13	400x8	12	7(4/3)	40x16	8-bitx3	4.5V LCD	80
<a href="#">EM78860</a>	2.5~3.5	16Kx13	2.5Kx8	32	7(4/3)	60x16	8-bitx2	-	84
<a href="#">EM78861</a>	2.5~5.5	32Kx13	2.6Kx8	32	7(4/3)	-	8-bitx2	2Mx8 Data ROM	44

note :\* -- Under development.

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## ● PC PERIPHERAL PRODUCT LINE ●

Mouse controller	
Part No.	Main function description
<a href="#">EM83701AP/BP</a>	All-in-one serial mouse controller (Built-in Zener Diode)
<a href="#">EM83702AP/BP</a>	All-in-one serial mouse controller (Built-in Zener Diode)
<a href="#">EM83810</a>	All-in-one plug & play scrolling serial mouse controller
<a href="#">EM84501AP/BP/CP/DM</a>	PS/2 mouse controller
<a href="#">EM84502AP/BP/CP/DM</a>	PS/2 mouse controller
<a href="#">EM84510</a>	PS/2 scrolling mouse controller
*EM84520	Serial & PS/2 scrolling mouse controller
*EM84600	USB mouse controller
<a href="#">EM85000/1</a>	Apple desktop bus mouse controller

<b>Keyboard encoder</b>	
<a href="#">EM83049</a>	Keyboard Encoder
<b>Analog to digital converter</b>	
<a href="#">EM19100</a>	8-bit, 20 MSPS video A/D converter
<a href="#">EM19101</a>	8-bit, 5 MSPS video A/D converter
<a href="#">EM19110</a>	10-bit, 5 MSPS video A/D converter
*EM19410	10-bit, CCD/CIS signal processor
*EM19420	12-bit, CCD/CIS signal processor
<b>Support series</b>	
<a href="#">EM83010</a>	RAM & I/O Expander

note :\* -- Under development.



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## ● CONSUMER PRODUCT LINE ●

### *Simple voice synthesizer (Simple Speech)*

Part No.	Voice Duration	Variable Sample	Variable Volume	Trigger	Configurable	One Key Random /	Remarks
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	(sec.@6KHz)	Rate (kHz)	(steps)	Pins	Output Pins	Serial Trigger	
<a href="#">EM20035</a>	3	6	Fixed	2	1	-	Piezo buzzer driver
<a href="#">EM20055A</a>	3	4/4.8/6/8	4	4	3	-	-
<a href="#">EM22000</a>	3 ~ 6	6.4/8	fixed	3 ~ 8	3	Yes	PWM driver
<a href="#">EM22200</a>	3 ~ 6	6/8	fixed	8	3	Yes	-
<a href="#">EM22300</a>	9 ~ 60	6/8	fixed	12	4	Yes	-

### ***Tiny-controller-based voice synthesizer ( EASY SOUND™ )***

Part No.	Voice Duration (sec.@6K Hz)	Variable Sample Rate (KHz)	Variable Volume (steps)	Dual-Channel Melody/Sound Effect generator	IO Pins	Max Program ROM size	RAM size (nibbles)	IR Xmit interface	Remarks
<a href="#">EM22600A</a>	3 ~ 6	5/6/7/8	fixed	-	8IO	4K	16	-	-
<a href="#">EM22700A</a>	9 ~ 60	5/6/7/8	8	Melody	4I+8IO	8K	32	-	-
<a href="#">EM57000</a>	2 ~ 340	4 ~ 31.2	8	Melody + Sound	4I+ 8IO	32K	128	Yes	-
*EM58000	2 ~ 340	4 ~ 31.2	8	Melody + Sound	4I+ 8IO+4O	32K	128	Yes	Mix Output

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## ● TELECOM PRODUCT LINE ●

Dialer									
EM NO.	Memory	Volume Add	Key Tone	Lock	Hold	Hand-free	LCD	I.P.P	Pin
<a href="#">EM91465A/B/C/D</a>	13	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	A/B/C/D	18/20/22/24
<a href="#">EM91465A/B/C/D(chinese)</a>									
<a href="#">EM91460A/B/C/D</a>	10	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	A/B/C/D	18/20/22/24
<a href="#">EM91460A/B/C/D(chinese)</a>									
<a href="#">EM91455A/B/C/D</a>	3	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	A/B/C/D	18/20/22/24
<a href="#">EM91455A/B/C/D(chinese)</a>									
<a href="#">EM91450A/B/C/D</a>	R.D	-	A/B/C/D	A/B/C/D	C/D	B/C/D	C/D	A/B/C/D	16/18/20/22
<a href="#">EM91450A/B/C/D(chinese)</a>									
<a href="#">EM91440A/B/C/D</a>	40	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	-	18/20/22/24
<a href="#">EM91420A/B/C/D</a>	20	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	-	18/20/22/24
<a href="#">EM91415A/B/C/D</a>	13	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	-	18/20/22/24
<a href="#">EM91415A/B/C/D(chinese)</a>									
<a href="#">EM91410A/B/C/D</a>	10	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	-	18/20/22/24
<a href="#">EM91410A/B/C/D(chinese)</a>									
<a href="#">EM91403A/B/C/D</a>	3	-	A/B/C/D	A/B/C/D	A/B/C/D	B/C/D	C/D	-	18/20/22/24
<a href="#">EM91403A/B/C/D(chinese)</a>									
<a href="#">EM91401A/B/C/D</a>	R.D	-	A/B/C/D	A/B/C/D	C/D	B/C/D	C/D	-	16/18/20/22
<a href="#">EM91240A/B/C</a>	40	-	A/B/C	-	-	B/C	C	-	18/20/22
<a href="#">EM91220A/B/C</a>	20	-	A/B/C	-	-	B/C	C	-	18/20/22

<a href="#">EM91215A/B/C</a>	13	-	A/B/C	-	-	B/C	C	-	18/20/22
<a href="#">EM91210A/B/C</a>	10	-	A/B/C	-	-	B/C	C	-	18/20/22
<a href="#">EM91203A/B/C</a>	3	-	A/B/C	-	-	B/C	C	-	18/20/22
<a href="#">EM91810A/B</a>	R.D	-	A/B	-	-	B	A/B	-	18/20
<a href="#">EM91710A/B</a>	R.D	-	A/B	-	-	B	-	-	16/18
<a href="#">EM91865A/B</a>	13	A/B	-	-	A/B	B	-	-	16/18
<a href="#">EM91855A/B</a>	5	A/B	-	-	A/B	B	-	-	16/18
<a href="#">EM91850</a>	R.D	✓	-	-	✓	✓	-	-	16

### Dialer & LCD

EM NO.	Memory	RTC	Check Time	LCD Digits	Calculator	Pre-dial	A.R.D	Pin
<a href="#">EM32100H</a>	-	✓	-	10	-	-	-	48
<a href="#">EM32100H (chinese)</a>								
* <a href="#">EM32110H</a>	-	✓	✓	10	-	-	-	48
<a href="#">EM32116H</a>	-	✓	-	16	-	-	-	80
<a href="#">EM32117H</a>	-	✓	✓	16	-	-	-	80
<a href="#">EM32117H (chinese)</a>								
<a href="#">EM95110H</a>	32	✓	✓	16	✓	-	✓	80
<a href="#">EM95120H</a>	13	✓	✓	16	✓	✓	✓	80
<a href="#">EM95120H (chinese)</a>								

### Cordless

EM NO.	Memory		Channel	LCD Digits	Autoscan	Security code	Power saving	Package
	HANDSET	BASE						
<a href="#">EM92010/11</a>	13	13	10	16/10	-	16bit	1 : 8	44QFP/42SDIP
<a href="#">EM92010/11 (chinese)</a>								
<a href="#">EM94014/15</a>	13	-	2	16/10	-	16bit	1 : 5	28SOP/28DIP
<a href="#">EM94014/15 (chinese)</a>								

<a href="#">EM92002/3</a>	R.D	-	1	-	-	16bit	1 : 9	24SOP/20DIP
<a href="#">EM92002/3</a> <a href="#">(chinese)</a>								
EM94000/1	13	18	15	-	-	12bit	1 : 8	28SOP/28DIP
<a href="#">EM92100/101</a>	13	13	10	16/10	✓	16bit	1 : 6	44OFP/42SDIP
<a href="#">EM92100/101</a> <a href="#">(chinese)</a>								

## TELECOM PRODUCT LINE (con't)

<b>TAD Controller</b>	
*EM71001	Fully digital with 8kbps vocoder
<a href="#">EM9270C/D</a>	DTMF decoder
EM93010	Shuttle type with remote control
EM93030	Shuttle type with digital OGM
<a href="#">EM93610</a>	Shuttle type with remote control & Amp
*EM93620	Fully digital with ADM controller
<b>Caller ID</b>	
<a href="#">EM92546</a> <a href="#">EM92546(chinese)</a>	FSK decoder
<a href="#">EM92547A/B</a>	FSK decoder
EM92556	FSK With call waiting decoder
*EM92557	FSK With call waiting decoder & DTMF gen
EM95500	Adjunct box caller ID with MCU & FSK & DTMF
<b>PLL</b>	
<a href="#">EM92600A/C/(chinese)</a>	Parallel control 46/49 , 45/48 MHz
Note : I.P.P: Illegl Parallel Phone Det. RTC : Real Time Clock A.R.D : Auto Redial	

## 8-BIT $\mu$ C FOR TELECOM PRODUCT

EM NO.	Voltage	ROM	RAM	I/O	INT(E/I)	LCD	Timer/ Counter	Other spec	Pin no.
<a href="#">EM78156</a>	2.5~5.5	1Kx13	56x8	12	3(1/2)	-	8-bitx1	Voltage Detector	18
EM78256		2Kx13							
<a href="#">EM78456</a>		4Kx13							
EM78447A/B	2.5~5.5	4Kx13	157x8	20/24	3(1/2)	-	8-bitx1	-	28/32
EM78467A/B	2.5~5.5	4Kx13	157x8	20/24	3(1/2)	-	8-bitx1	Low EMI	28/32
EM78448	2.5~5.5	4Kx13	157x8	32	7(4/3)	-	8-bitx1	Precise RC, OSC	40
<a href="#">EM78860</a>	2.5~3.5	16Kx13	2.5Kx8	32	7(4/3)	60x16	8-bitx2	-	84
<a href="#">EM78810</a>	2.5~5.5	8Kx13	1.3Kx8	44	7(4/3)	60x16	8-bitx3	FSK,DAMF	100
<a href="#">EM78811</a>	2.5~5.5	16Kx13	2.8Kx8	32	8(4/4)	60x16	8-bitx3	FSK,DAMF	100
*EM78911	2.5~5.5	16Kx13	2.8Kx8	32	7(4/3)	60x16	8-bitx3	FSK,DAMF, Call Waiting	100

#### 4-BIT $\mu$ C FOR TELECOM PRODUCT

Part No.	Total Pins	VDD (V)	ROM (byte)	RAM (nibble)	Clock	I/P	O/P	I/O	Wake-up pins	Timer/ Counter	External interrupt	Serial Interface	Watch Dog Timer	LCD	Sound Gen.	dtmf Gen.	Other
<a href="#">EM73290</a>	42	4.0~5.0	4096	244	Single	3	0	23	1	2	2	-	-	-	✓	-	Analog switch
<a href="#">EM73400</a>	42	4.0~5.0	4096	244	Single	3	0	23	1	2	2	-	-	-	✓	-	Analog switch
<a href="#">EM73470</a>	42	4.0~5.0	4096	244	Single	3	0	23	1	2	2	-	-	-	✓	-	Analog switch
<a href="#">EM73491</a>	29	2.4~5.0	4096	244	Single	5	1	16	5	2	2	-	-	-	-	✓	-
<a href="#">EM73492</a>	42	2.4~5.0	4096	756	Single	5	3	27	5	2	2	✓	-	-	-	✓	-
<a href="#">EM73676</a>	60	4.0~5.0	6144	244	Single	3	0	19	1	2	2	-	✓	-	✓	-	A.S. AMP. DTMF Rev
<a href="#">EM73895</a>	79	2.4~5.0	8192	756	Dual	4	1	24	-	2	2	✓	✓	32x4	-	✓	-
<a href="#">EM73896</a>	80	2.4~5.0	8192	756	Dual	4	1	24	-	2	2	✓	✓	32x4	✓	✓	-
EM73360	46	1.5	3072	52	Single	4	-	2	4	2	1	-	-	27x3	✓	-	-
<a href="#">EM73866</a>	73	2.2~5.5	8K	244	Dual	8	-	20	20	2	2	-	✓	32*4	✓	-	-
<a href="#">EM73883</a>	73	3.0/4.5	8K	372	Dual	4	-	8	8	2	2	-	-	40x8	✓	-	-

note :\* -- Under development.

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## ● Memory Line ●

<a href="#">EM23C256</a>	32Kx8 bit Mask-programmable ROM
<a href="#">EM23C512</a>	64Kx8 bit Mask-programmable ROM
<a href="#">EM23C510</a>	High speed 64Kx8 bit Mask-programmable ROM
<a href="#">EM23C1000</a>	128Kx8 bit Mask-programmable ROM
<a href="#">EM23C1010</a>	High speed 128Kx8 bit Mask-programmable ROM
<a href="#">EM23C2000</a>	256Kx8 bit Mask-programmable ROM
<a href="#">EM23C4000</a>	512Kx8 bit Mask-programmable ROM
<a href="#">EM23C8000</a>	1Mx8 bit Mask-programmable ROM
<a href="#">EM23C8200</a>	1Mx8 bit or 512Kx16 bit Mask-programmable ROM
<a href="#">EM23C1620</a>	2Mx8 bit or 1Mx16 bit Mask-programmable ROM
<a href="#">EM23C3220</a>	4Mx8 bit or 2Mx16 bit Mask-programmable ROM

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