

1. GPIO Type MCU Family

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Special Function	Package-Lead Count
						(8-bit)	(16-bit)								
EM78P447N	OTP	4K	148	24	2(1/1)	1	-	Yes	-	2.3~5.5	0 ~ 70	ERC,HXT,	1	High Noise Immunity	DIP-28/32L
										2.5~5.5	-40 ~ 85	LXT			SOP-24/28/32L
															SDIP-24/28/32L
															SSOP-28L
EM78153S	Mask	1K	32	11	3(2/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	IRC,ERC,	-	IRC	DIP-14L
												HXT,LXT			SOP-14L
EM78P153S	OTP	1K	32	11	3(2/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	IRC,ERC,	-	IRC	DIP-14L
												HXT,LXT			SOP-14L
EM78156E	Mask	1K	48	12	3(2/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	ERC,HXT,	-	-	DIP-18L
												LXT			SOP-18L
															SSOP-20L
EM78P156EL	OTP	1K	48	12	3(2/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	ERC,HXT,	-	IRC-	DIP-18L
												LXT			SOP-18L
															SSOP-20L
EM78447SA/B/C/D	Mask	4K	148	24	2(1/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	ERC,HXT,	-	-	SDIP-24/28L
												LXT			SOP-24/28/32L
															DIP-8/32L
															SSOP-28L
EM78P447SA/B/C/D	OTP	4K	148	24	2(1/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	ERC,HXT,	-	-	SDIP-24/28L
												LXT			SOP-24/28/32L
															DIP-8/32L
															SSOP-28L
EM78P451S	OTP	4K	140	35	4(1/3)	2	-	Yes	-	2.3 ~ 5.5	0 ~ 70	ERIC,ERC,	-	SPI	DIP-40L
												HXT,LXT			QFP-44L
EM78452	Mask	4K	140	35	4(1/3)	2	-	Yes	-	2.3 ~ 5.5	0 ~ 70	ERIC,ERC,	-	SPI,Timer 1 isolation 2.1V/ 16MHz (Mask)	DIP-40L
												HXT,LXT			SOP-40L
															QFP-44L
EM78P153A	OTP	1K	32	11	3(2/1)	1	-	Yes	-	2.3 ~ 5.5	0 ~ 70	IRC,ERC,	-	IRC	DIP-14L
												HXT,LXT			SOP-14L



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2. GPIO Type MCU Family (High EFT/ESD Level)

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Special Function	Package-Lead Count
						(8-bit)	(16-bit)								
EM78P159N	OTP	1K	48	15	3(2/1)	1	-	Yes	-	2.1~5.5	0 ~ 70	IRC, ERC,	-	IRC,	DIP-18L
										2.3~5.5	-40 ~ 85	HXT, LXT		High Noise Immunity	SOP-18L
															SSOP-20L
EM78P210N	OTP	2K	80	18	5(2/3)	1	-	Yes	-	2.1~5.5	0 ~ 70	IRC, ERC,	1	IRC,	DIP-20L
										2.3~5.5	-40 ~ 85	HXT, LXT		Comparator	SOP-20L
															SSOP-20L
															SDIP-24L
															SOP-24L
															SSOP-24L
EM78P220N	OTP	4K	144	26	5(2/3)	1	-	Yes	-	2.1~5.5	0 ~ 70	IRC, ERC,	1	IRC,	SDIP-24/28L
										2.3~5.5	-40 ~ 85	HXT, LXT		Comparator	SOP-24/28L
															SSOP-24/28L
EM78P163N	OTP	1K	48	12月14日	5(3/2)	2	-	Yes	8*1	2.0~5.5	0 ~ 70	IRC, ERC,	4ch	LVR	DIP-14L
										2.2~5.5	-40 ~ 85	HXT, HXT2,XT		4-Ch Comp/OPA	SOP-14L
												LXT1, LXT2		TBRD	DIP-16L
															SOP-16L
EM78P164N	OTP	1K	48	12月14日	5(3/2)	2	-	Yes	8*1	2.0~5.5	0 ~ 70	IRC, ERC,	4ch	LVR	DIP-14L
										2.2~5.5	-40 ~ 85	HXT, HXT2,XT		4-Ch Comp/OPA	SOP-14L
												LXT1, LXT2		TBRD	DIP-16L
														4-I/P pin with high voltage	SOP-16L



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3. Flash GPIO Type with EEPROM (Industrial Grade)

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Special Function	Package-Lead Count
						(8-bit)	(16-bit)								
EM78F651N	Flash	1K	80	17	4(2/2)	1	-	Yes	-	2.2~5.5	0 ~ 70	IRC, ERC,	-	128 bytes EEPROM,	DIP-14/16/18/20L
										2.4~5.5	-40 ~ 85	XT, LXT1,		LVD, LVR	SOP-14/16/18L
												HXT, LXT2			SSOP-10/20L
EM78F641N*	Flash	1K	80	7月13日	5(3/2)	2	-	Yes	8*1	2.2~5.5	0 ~ 70	IRC, ERC,	1(0)	128 bytes EEPROM,	DIP-10/16L
										2.4~5.5	-40 ~ 85	XT, LXT1,		LVR	SOP-10/16L
												HXT, LXT2			
EM78F642N*	Flash	2K	80	15/17	6(3/3)	3	-	Yes	8*1	2.2~5.5	0 ~ 70	IRC, ERC,	1(0)	128 bytes EEPROM,	DIP-18/20L
										2.4~5.5	-40 ~ 85	XT, LXT1,		LVR	SOP-18/20L
												HXT, LXT2			
EM78F644N*	Flash	4K	144	21/25	13(3/10)	3	1	Yes	8*1	2.2~5.5	0 ~ 70	IRC, ERC,	1(0)	256 bytes EEPROM,	SDIP-24/28L
									10*2	2.4~5.5	-40 ~ 85	XT, LXT1,		LVR, SPI	SOP-24/28L
												HXT, LXT2		/UART	
EM78F648N*	Flash	8K	296	37/40	14(4/10)	3	1	Yes	8*1	2.2~5.5	0 ~ 70	IRC, ERC,	2(0)	256 bytes EEPROM,	DIP-40/44L
									10*2	2.4~5.5	-40 ~ 85	XT, LXT1,		LVR, SPI	QFP-40/44L
												HXT, LXT2		/UART	

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4. Low Pin-Count MCU Family

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	ADC (Bit*Ch)	LCD	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Serial I/O	Special Function	Package Lead Count
						(8-bit)	(16-bit)											
EM78P131A	OTP	1K	48	7 I/O & 1 I	3(2/1)	1	-	-	-	-	-	2.3~ 5.5	0 ~ 70	IRC, ERC, HXT, LXT	-	-	IRC, LVD	MSOP-10L
EM78P134N	OTP	1K	48	8	5(3/2)	2	-	-	-	-	8*1	2.0~ 5.5	0 ~ 70	IRC, ERC,	3ch	-	LVR	MSOP-10L
												(2.2~5.5)	-40~85	HXT1, HXT2, XT			3-Ch Comp/OPA	
														LXT1, LXT2			TBRD	
EM78P141	OTP	1K	48	8	8(4/4)	3	-	-	10*7	-	8*2	2.1~ 5.5	0 ~ 70	IRC, ERC,	1(0)	-	LVR,LVD	MSOP-10L
														HXT1/HXT2			IRC, Comp	
														LXT1/LXT2			TBRD	
EM78P143	OTP	2K	80	8	8(4/4)	3	-	-	10*7	-	8*2	2.1~ 5.5	0 ~ 70	IRC, ERC,	1(0)	-	LVR,LVD	MSOP-10L
														HXT1/HXT2			IRC, Comp	
																	TBRD	



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5. ADC Type MCU Family

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules (8-bit)	Modules (16-bit)	WDT	ADC (Bit*Ch)	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Serial I/O	Special Function	Package-Lead Count
EM78P259N	OTP	2K	80	15	10(3/7)	3	1	Yes	12*4	9*1	2.3 ~ 5.5	0 ~ 70	IRC, ERC,	1(1)	-	IR	DIP-14/18/20L
											2.5 ~ 5.5	-40 ~ 85	HXT, LXT				SOP-14/16/18/20L
																	SSOP-20L
EM78P418N	OTP	4K	144	17	6(3/3)	4	-	Yes	12*8	10*3	2.3 ~ 5.5	0 ~ 70	IRC, ERC,	1(1)	-	PWM, IRC,	DIP-20L
											2.5 ~ 5.5	-40 ~ 85	HXT, LXT			OP, comparator	SOP-20L
																	SSOP-20L
EM78P5840N	OTP	4K	144	16	6(3/3)	2	-	Yes	10*8	NA	2.3 ~ 5.5	0 ~ 70	ERIC, Crystal,	-	-	IRC	DIP-18/20/24L
											2.5 ~ 5.5	-40 ~ 85	(PLL), IRC				SOP-18/20L
																	PDIP-24L
EM78P312N	OTP	4K	144	22	15(4/11)	3	1	Yes	10*8	8*1	2.3 ~ 5.5	0 ~ 70	Crystal, ERC	-	Yes	SPI, UART,	DIP-28L
											2.5 ~ 5.5	-40 ~ 85				Capture, PDO,	SOP-28L
																Window, TBT	SSOP-28L
EM78P809N	OTP	8K	144	22	15(4/11)	3	1	Yes	10*8	8*1	2.3 ~ 5.5	0 ~ 70	Crystal, ERC	-	Yes	KT (key tone)	
											2.5 ~ 5.5	-40 ~ 85				SPI, UART,	DIP-28L
																Capture, PDO,	SOP-28L
EM78P458/459	OTP	4K	84	16	6(3/3)	*	-	Yes	8*8	10*2	2.3 ~ 5.5	0 ~ 70	ERIC, ERC	-1	-	PWM, OP,	DIP-20/24L
													HXT, LXT			comparator	SOP-20/24L
EM78458/459	Mask	4K	84	16	6(3/3)	3	-	Yes	8*8	10*2	2.3 ~ 5.5	0 ~ 70	ERIC, ERC	-1	-	PWM, OP,	DIP-20/24L
													HXT, LXT			comparator	SOP-20/24L
EM78P349	OTP	2K	176	21/25	9(4/5)	1(10 bit*3)	-	Yes	12*11, 12*15	10*3	2.3 ~ 5.5	0 ~ 70	IRC, ERC,	-	-	LVD/LVR	SDIP-24/28L
													HXT, LXT				SOP-24/28L



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6. ADC Type MCU Family (High EFT/ESD Level)

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	ADC (Bit*Ch)	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Serial I/O	Special Function	Package-Lead Count
						(8-bit)	(16-bit)										
EM78P342N	OTP	2K	80	18	7(4/3)	3	1	Yes	12*7	9*1	1.9 ~ 5.5	0 ~ 70	IRC, ERC,	1(1)	-	IRC up to 16Mhz,	DIP-14/18/20L
											2.1 ~ 5.5	-40 ~ 85	HXT, LXT			Fast wake up,	SOP-14/16/18/20L
																4 high sink I/O,	SSOP-20L
																Low power consumption,	
																IR, LVR, LVD	
EM78P346N	OTP	4K	144	18	6(3/3)	4	-	Yes	12*8	10*3	1.9 ~ 5.5	0 ~ 70	IRC, ERC,	1(1)	-	IRC up to 16Mhz,	DIP-18/20L
											2.1 ~ 5.5	-40 ~ 85	HXT, LXT			Fast wake up,	SOP-18/20/24L
																4 high sink I/O,	SSOP-20/24L
																Low power consumption,	SDIP-24L
																PWM, OP, comparator,	
																POR, LVD, LVR	
EM78P330N	OTP	8K	144	25/29	11/(4/7)	4(10-Bit*3)	-	Yes	12*8	10*3	2.3 ~ 5.5	-40 ~ 85	IRC, Cryst al,	1(1)	Yes	PWM, LVD, LVR,	SDIP-28/32L
													ERC			OP/Comparator,	DIP-28L
																SPI, Buzzer	SOP-28/32L
																	LQFP-32L



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7. Flash ADC Type with EEPROM (Industrial Grade)

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	ADC (Bit*Ch)	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Serial I/O	Special Function	Package-Lead Count
						(8-bit)	(16-bit)										
EM78F652N	Flash	2K	144	17	8/(3/5)	2	1	Yes	12*4	8*1	2.2 ~ 5.5	0 ~ 70	IRC,ERC,	1(2 order)	Yes	256 bytes EEPROM	DIP-16/18/20L
											2.4 ~ 5.5	-40 ~ 85	HXT, XT, LXT1,LXT2			SPI, 2 order OPamp	SOP-16/18/20L
																PGA, LVD, LVR, PDO	
																Counter,Wi ndow	
EM78F661N*	Flash	1K	80	7月13日	6/(3/3)	2	-	Yes	10*6	8*1	2.2 ~ 5.5	0 ~ 70	IRC,ERC,	1(0)	Yes	128 bytes EEPROM	DIP-10/16
											2.4 ~ 5.5	-40 ~ 85	HXT, XT, LXT1,LXT2			LVR	SOP-10/16L
EM78F662N*	Flash	2K	80	15/17	7/(3/4)	3	-	Yes	10*8	8*1	2.2 ~ 5.5	0 ~ 70	IRC,ERC,	1(0)	Yes	128 bytes EEPROM	DIP-18/20
											2.4 ~ 5.5	-40 ~ 85	HXT, XT, LXT1,LXT2			LVR	SOP-18/20L
EM78F664N*	Flash	4K	144	21/25	14/(3/11)	3	1	Yes	10*8	8*1	2.2 ~ 5.5	0 ~ 70	IRC,ERC,	1(0)	Yes	256 bytes EEPROM	SDIP-24/28L
										10*2	2.4 ~ 5.5	-40 ~ 85	HXT, XT, LXT1,LXT2			LVR, SPI	SOP-24/28L
																/UART	
EM78F668N*	Flash	8K	296	37/40	15/(4/11)	3	1	Yes	12*8	8*1	2.2 ~ 5.5	0 ~ 70	IRC,ERC,	2(0)	Yes	256 bytes EEPROM	DIP-40/44L
										10*2	2.4 ~ 5.5	-40 ~ 85	HXT, XT, LXT1,LXT2			LVR, SPI	QFP-40/44L
																/UART	

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8. 40 MIPS Flash/OTP/Mask MCU Family

IC Part No.	Memory Type	ROM (16-Bit)	RAM (8-Bit)	I/O Pins	Timer Modules		WDT	Base Band	USB HUB	USB Device	ADC (bit*Ch)	PWM (bit*Ch)	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	SPI	Special Function	Package-Lead Count
					(8-bit)	(16-bit)												
EM77F900	Flash	16K	1.3K	42	1	1	Yes	Yes	Yes	Yes	10*16	16*2	2.2~3.6	0 ~ 70	ERC,PLL,	Yes	ERC, POR, Pin Wakeup, Pull High, Open drain	QFP-100L
															XTAL			LQFP-64L
EM77930	MASK	12K	1216	30	1	1	Yes	Yes	-	Yes	-	16*1	2.2~3.6	0 ~ 70	IRC,PLL,	-	IRC, POR, Pin Wakeup, Pull High, Open drain	LQFP-44L
															XTAL			
EM77950	MASK	12K	896	40	1	1	Yes	Yes	-	-	8*16	16*2	2.2~3.6	0 ~ 70	ERC, PLL,	Yes	ERC, POR, WDT,	QFP-52L
															XTAL		Pin Wakeup, Pull High,	QFP-44L
																	Open	



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9. LCD+ADC Type MCU Family

IC Part No.	Memory Type	ROM (13-Bit)	RAM (8-Bit)	I/O Pins	Interrupt (Ex/In)	Timer Modules		WDT	LCD (C*S)	ADC (Bit*Ch)	PWM	VDD(V)	Oper. Temp.(°C)	Oscillation Mode	Compar. (OP amp)	Serial I/O	Special Function	Package-Lead Count
						(8-bit)	(16-bit)											
EM78468	Mask	4K	272	28	8(3/5)	5	-	Yes	4*32	-	8*1	1.9~5.5	0 ~ 70	ERIC,Crystal, PLL	-	-	IR	QFP-44/64L LQFP-44/64L
EM78P468N	OTP	4K	272	28	8(3/5)	5	-	Yes	4*32	-	8*1	2.3 ~ 5.5	0 ~ 70	ERIC,Crystal,	-	-	IR	QFP-44/64L
												2.5 ~ 5.5	-40 ~ 85	PLL				LQFP-44/64L
EM78P510N	OTP	8K	256	43	18(10/8)	3	1	Yes	8*23	12*12	8*2 or 16*1	2.3 ~ 5.5	-40 ~ 85	Dual Clock,	-	-	UART, SPIt, LVD, LVR	SDIP-32L
														ERIC,Crystal,				SOP-32L
														PLL				QFP-44L
																		LQFP-44/48L
EM78P469	OTP	8K	656	33	8(3/5)	5, 3	1	Yes	4*40	-	8*1	2.3 ~ 5.5	-20 ~85	ERIC,Crystal,	-	-	IR	QFP-44/64L
														PLL				LQFP-44/64L



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10. Touch Pad Selection Guide

Dimension	Major Function	Part Number.	Main Feature
One Dimension	Touch Button	eKT8120CW	1~18 buttons/ Scroll/ Wheel support
Controller IC	Wheel Scroll	eKT8130AW	1~16 buttons support
		eKT8130AQ	1~31 buttons support
		eKT8122BW	1~13 buttons support
		eKT8150BW	High resolution scroll support + 1~6 buttons
ITO Touch	Transparent	eBI8251-S28P	Size in 2.8", 5:9 aspect ratio
Panel Module	Gestures	eBI8231-S28N	Size in 2.8", 3:4 aspect ratio
	Multi Fingers	eBI8251-S30P	Size in 3.0", 5:9 aspect ratio
	Virtual Button	eBI8250-S32N	Size in 3.2", 3:4 aspect ratio
	Virtual Scroll	eBI8250-S35N	Size in 3.5", 3:4 aspect ratio
		eBI8256-S40W	Size in 4.0", 16:9 aspect ratio
		eBI8256-S43X	Size in 4.3", 15:9 aspect ratio
		eBI8256-S48X	Size in 4.8", 15:9 aspect ratio
		eBI8256-S50W	Size in 5.0", 16:9 aspect ratio



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11. USB MCU

IC Part No.	Memory Type	Operating Voltage (V)	I/O	Package-Lead Count
EM78M611E	MTP	4.5~5.5	35	DIP-20/24/40L
				SOP-20/24L
				SSOP-20/24L
				QFP-44L
EM78611	Mask	4.5~5.5	37	DIP-20/24/40L
				SOP-20/24L
				SSOP-20/24L
				QFP-44L
EM78M612	MTP	4.5~5.5	15	DIP-16/18/20/24L
				SOP-16/18/20/24L
				SSOP-24L
EM78612	Mask	4.5~5.5	12	DIP-16/18/20L
				SOP-16/18/20L
				SSOP-20L
EM78M680	MTP	4.5~5.25	35	DIP-20/24/40L
				SOP-20/24L
				QFP-44L
EM78680	Mask	4.0~5.5	37	DIP-40L
				QFP-44L



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