

## Elan 8-bit MCU Selection Guide( 2010Q3~)

MCU Line: EM78 Family

F640 series (W	/in <sup>TM</sup> ): Flag	sh GPIO Tv	pe with EEPRON	(Indus	trial Gra	ide)																																
		Operating		PROM			Interrupt		PWM	Compa-			Oper. Temp.																									
Part No.	Type	Voltage	Mode	(Bit)	(Byte)	I/O (Pins)	(Ex/In)	Timer Modules	(Bit*Ch)	rator	IRC	EEPROM	(°C)	Package Type	Remark	ICE																						
EM78F641N																										1K*13	48	8/14	5(3/2)	8*2	8*1(TC3)	1	Yes	128		10 MSOP 16 DIP/SOP	LVR, TBRD, PDO/PWM	
EM78F642N		2.2~5.5 (2.4~5.5)	IRC, ERC,	2K*13	80	16/18	7(3/4)	8*3, 16*1	8*1(TC3)	1	Yes	128		18 DIP/SOP 20 DIP/SOP/SSOP	LVR, TBRD, Capture/PDO/PWM	UIT660N + UICE																						
EM78F644N	Flash		HXT, XT, LXT1, LXT2	4K*13	144	21/25	13(3/10)	8*3, 10*2, 16*1	8*1(TC3), 10*2	1	Yes	256	0~70 (-40~85)	24/28 SKDIP/SOP	LVR, SPI/UART, TBRD, Capture/Window/PDO/PWM																							
EM78F648N		2.4~5.5 (2.6~5.5)		8K*15	304	26/38/40	18(4/14)	8*3, 10*2, 16*1	8*1(TC3), 10*2	2	Yes	256	(	28 SKDIP/SOP 40 DIP 44 QFP	LVR/LVD, SPI/UART/I2C, TBRD, Capture/Window/PDO/PWM																							
EM78F645N*		2.4~5.5 (2.6~5.5)	IRC	4K*15	304	26/30	10(2/8)	8*2, 10*2	8*1(TC3), 10*2	-	Yes	128		28 SKDIP/SOP 32 QFN	LVR, I2C TBRD, PDO/PWM																							
F660 series (W	/in <sup>™</sup> ): Fla	sh ADC Ty	pe with EEPROM			de)																																
Part No.	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	ADC (Bit*Ch)	EEPROM	Oper. Temp. (°C)	Package Type	Remark	ICE																						
EM78F661N		2.2~5.5			1K*13	48	8/14	6(3/3)	8*2	8*1(TC3)	1	10*6	128		10 MSOP 16 DIP/SOP	LVR, TBRD, PDO/PWM																						
EM78F662N		(2.4~5.5)		2K*13	144	14/16/18	7(3/4)	8*2, 16*1	8*1(TC3)	1	10*8	128		16/18/20 DIP/SOP	LVR, TBRD, Window/PDO/PWM	UIT660N + UICE																						
EM78F664N	Flash	2.3~5.5 (2.5~5.5)	IRC, ERC, HXT, XT, LXT1, LXT2	4K*13	144	21/25	14(3/11)	8*3, 10*2, 16*1	8*1(TC3), 10*2	1	10*8	256	0~70 (-40~85)	24/28 SKDIP/SOP 32 QFN	LVR, SPI/UART, TBRD, Capture/Window/PDO/PWM																							
EM78F668N		2.4~5.5 (2.6~5.5)		8K*15	304	26/38/40	19(4/15)	8*3, 10*2, 16*1	8*1(TC3), 10*2	2	12*8	256		28 SKDIP/SOP 40 DIP 44 QFP	LVR/LVD, SPI/UART/I2C, TBRD, Capture/Window/PDO/PWM																							
EM78F665N*		2.4~5.5 (2.6~5.5)	IRC	4K*15	304	26/30	10(2/8)	8*2, 10*2	8*1(TC3), 10*2	-	12*8	128		28 SKDIP/SOP 32 QFN	LVR, I2C TBRD, PDO/PWM																							
F540 series (W	/in <sup>™</sup> ): Flas	sh GPIO Ty	pe (Industrial Gr	ade)																																		
Part No.	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	IRC	EEPROM	Oper. Temp. (°C)	Package Type	Remark	ICE																						
EM78F541N				1K*13	48	8/14	5(3/2)	8*2	8*1(TC3)	1	Yes	-		10 MSOP 16 DIP/SOP	LVR, TBRD, PDO/PWM	UIT660N + UICE																						
EM78F542N		2.2~5.5 (2.4~5.5)	IRC, ERC,	2K*13	80	16/18	7(3/4)	8*3, 16*1	8*1(TC3)	1	Yes	-		18 DIP/SOP 20 DIP/SOP/SSOP	LVR, TBRD, Capture/PDO/PWM																							
EM78F544N	Flash		HXT, XT, LXT1, LXT2	4K*13	144	21/25	13(3/10)	8*3, 10*2, 16*1	8*1(TC3), 10*2	1	Yes	-	0~70 (-40~85)	24/28 SKDIP/SOP	LVR, SPI/UART, TBRD, Capture/Window/PDO/PWM																							
EM78F548N		2.4~5.5 (2.6~5.5)		8K*15	304	26/38/40	18(4/14)	8*3, 10*2, 16*1	8*1(TC3), 10*2	2	Yes	Yes -	, ,	28 SKDIP/SOP 40 DIP 44 QFP	LVR/LVD, SPI/UART/I2C, TBRD, Capture/Window/PDO/PWM																							
EM78F545N*		2.4~5.5 (2.6~5.5)	IRC	4K*15	304	26/30	10(2/8)	8*2, 10*2	8*1(TC3), 10*2	-	Yes	-		28 SKDIP/SOP 32 QFN	LVR, I2C TBRD, PDO/PWM																							

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F560 series (W			oe (Industrial Gra		00.11								_					
Part No.	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	(Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	ADC (Bit*Ch)	EEPROM	Oper. Temp. (°C)	Package Type	Remark	ICE		
EM78F561N		2.2~5.5	IRC, ERC, HXT, XT, LXT1, LXT2	IRC FRC		1K*13	48	8/14	6(3/3)	8*2	8*1(TC3)	1	10*6	-		10 MSOP 16 DIP/SOP	LVR, TBRD, PDO/PWM	
EM78F562N		(2.4~5.5)			2K*13	144	14/16/18	7(3/4)	8*2, 16*1	8*1(TC3)	1	10*8	-		16/18/20 DIP/SOP	LVR, TBRD, Window/PDO/PWM		
EM78F564N	Flash	2.3~5.5 (2.5~5.5)		4K*13	144	21/25	14(3/11)	8*3, 10*2, 16*1	8*1(TC3), 10*2	1	10*8	-	0~70 (-40~85)	24/28 SKDIP/SOP 32 QFN	LVR, SPI/UART, TBRD, Capture/Window/PDO/PWM	UIT660N +		
EM78F568N		2.4~5.5 (2.6~5.5)			8K*15	304	26/38/40	19(4/15)	8*3, 10*2, 16*1	8*1(TC3), 10*2	2	12*8	-	. (~40~00)	28 SKDIP/SOP 40 DIP 44 QFP	LVR/LVD, SPI/UART/I2C, TBRD, Capture/Window/PDO/PWM	UICE	
EM78F565N*		2.4~5.5 (2.6~5.5)	IRC	4K*15	304	26/30	10(2/8)	8*2, 10*2	8*1(TC3), 10*2	-	12*8	-		28 SKDIP/SOP 32 QFN	LVR, I2C TBRD, PDO/PWM			
F100 series (W	in <sup>™</sup> ): Flas	sh ADC Ty	oe (Industrial Gra	de)														
Part No.	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	ADC (Bit*Ch)	EEPROM	Oper. Temp. (°C)	Package Type	Remark	ICE		
EM78F602N	Flash	2.2~5.5 (2.4~5.5)	IRC	2K*13	144	6	6(3/3)	8*2, 16*1	8*1(TC3)	1	-	256	0~70 (-40~85)	10 MSOP	1. High speed cool up (2ms) 2. LVR, TBRD, PDO/PWM	S/W Simulaor		
ASSP series (V	Nin™): Fla	ash ADC Ty	ype (Industrial Gr															
Part No.	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	ADC (Bit*Ch)	EEPROM	Oper. Temp. (°C)	Package Type	Remark	ICE		
A96F902N	Flash	2.2~5.5 (2.4~5.5)	IRC,ERC,HXT,X T,LXT1,LXT2	2K*13	144	14/16/18	7(3/4)	8*2,16*1	8*1(TC3)	3(2OP)	10*8	128	0~70	16/18/20 DIP/SOP	Smoke alarm, 2 OPA signal amplify application 2 LVR, TBRD, Window/PDO/PWM	UIT660N+UICE		
MTF110	_, , 2.1	2.1~5.5	IRC, ERC, HXT1, HXT2,	8K*13	272	26	26(11/15)	8*5, (16*1)	8*3	4 (1)	10 or	32	(-40~85)	28 SOP	1. BLDC ,e-bike application	ITMT110+UICE		
	Flash	(2.3~5.5)	LXT1, LXT2, XT	OK 13	212	30	20(11/13)	0 5, (10 1)	0 3	4 (1)	8*12	32		32 SOP/LQFP/QFN	2. PWM*3, LVD/LVR, IRC, SPI, UART			
P200 series: GI			EFT/ESD Level) Oscillation	PROM	CDAM		Intornumt		PWM	Compan	Lliade	ı	Oner Temp					
Part No.	Туре	Operating Voltage	Mode	(Bit)	(Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	(Bit*Ch)	Compar. (OP	High Sink	IRC	Oper. Temp. (°C)	Package Type	Remark	ICE		
EM78P202N			IRC, ERC, HXT1, HXT2, XT	2K*13	80	18	5(4/1)	8*1	-	1 (1)	12	Yes		18 DIP/SOP				
			LXT1, LXT2			16	5(4/1)	8*1	-	1 (1)	10	Yes		20 DIP/SOP/SSOP	12/10 high sink I/O	IT210N+UICE		
EM78P210N	ОТР	2.1~5.5		2K*13	80	18	5(4/1)	8*1	-	1 (1)	12	Yes		20 DIP/SOP/SSOP				
		(2.3~5.5)	IRC, ERC, HXT1, HXT2,	2K*13	80	22	5(4/1)	8*1	-	1 (1)	16	Yes	0~70 (-40~85)	24 SKDIP/SOP/SSOP	12/16 high sink I/O			
EM78P220N			LXT1, TXT2, LXT1, LXT2	4K*13	144	22	5(4/1)	8*1	-	1 (1)	16	Yes		24 SKDIP/SOP/SSOP				
				4K*13	144	26	5(4/1)	8*1	-	1 (1)	16	Yes		28 SKDIP/SOP/SSOP	_			
EM78P224N*	ОТР	2.1~5.5 (2.3~5.5)	IRC,HXT1,HXT2 ,XT, LXT1	4K*15	176	26/30	5(3/2)	8*2	8*1(TC1)	-	16	Yes		28 DIP/SKDIP/SOP/SSO P 32 DIP/SOP	16 high sink I/O, PDO/PWM/Capture/Buzzer	UIT370 + UICE		

P300 series: AD	C Type N	ICU (High I	EFT/ESD Level)														
Part No.		Operating	Oscillation		SRAM	I/O (Pins)	Interrupt	Timer Modules	PWM	Compar.	ADC	IRC	Oper. Temp.	Package Type	Remark	ICE	
Turt Ho.	Type	Voltage	Mode	(Bit)	(Byte)	20 (1110)	(Ex/In)	Timor inocarios	(Bit*Ch)	(OP	(Bit*Ch)		(°C)	r dollago Typo	rtomant.	.02	
EM78P349N		2.3~5.5	IRC, ERC, HXT, LXT	2K*13	176	21/25	9(4/5)	8*1, 10*3	10*3	-	12*11 12*15	Yes		24/28 SKDIP/SOP	LVD/LVR	IT349N+UICE	
			100 500	2K*13	80	12	10(3/7)	8*3, 16*1	9*1(TCCC)	-	12*7	Yes		14 DIP/SOP	2/41/1	IT341N+UICE	
EM78P342N			IRC, ERC, HXT1, HXT2,	2K*13	80	14	11(4/7)	8*3, 16*1	9*1(TCCC)	1 (1)	12*7	Yes		16 SOP	2/4 high sink I/O, LVD/LVR.		
LIVITOI 342IV			LXT1, LXT2,	2K*13	80	16	11(4/7)	8*3, 16*1	9*1(TCCC)	1 (1)	12*7	Yes		18 DIP/SOP	TCCC has IR/PWM function		
				2K*13	80	18	11(4/7)	8*3, 16*1	9*1(TCCC)	1 (1)	12*8	Yes		20 DIP/SOP/SSOP			
				2K*13	80	18	10(4/6)	8*3	8*2	1 (1)	12*8+1	Yes		20 DIP/SOP/SSOP			
			IRC. ERC.	2K*13	80	16	10(4/6)	8*3	8*2	1 (1)	12*7+1	Yes		18 DIP/SOP	Ī		
EM78P372N*			HXT1, HXT2, XT	2K*13	80	14	10(4/6)	8*3	8*2	1 (1)	12*7+1	Yes		16 SOP	14 high sink I/O LVD/LVR/TBRD/PWM	LIIT200 LLIICE	
	OTP		LXT1, LXT2	2K*13	80	12	9(3/6)	8*3	8*2	-	12*7	Yes		14 DIP/SOP	LVD/LVK/TDKD/FVVIVI	UIT300+UICE	
	011	2.1~5.5 ( 2.3~5.5)		2K*13	80	8	9(3/6)	8*3	8*2	-	12*7	Yes	0~70	10 MSOP/SSOP	1		
		( 2.3~3.3)	IRC, ERC,	4K*13	144	16	8(4/4)	8*4	10*3	-	12*8	Yes	(-40~85)	18 DIP/SOP			
EM78P346N			HXT1, HXT2, XT	4K*13	144	18	9(5/4)	8*4	10*3	1 (1)	12*8	Yes	1	20 DIP/SOP/SSOP	4 high sink I/O,	IT345N+UICE	
				LXT1, LXT2	4K*13	144	22	9(5/4)	8*4	10*3	1 (1)	12*8	Yes		24 SKDIP/SOP/SSOP	LVD/LVR	
			IRC, ERC,	4K*13	304	16	8(4/4)	8*2	16*3,8*1	1 (1)	12*14	Yes		18 DIP/SOP	21 high sink I/O,		
EM78P374N*			HXT1, HXT2, XT	4K*13	304	18	9(5/4)	8*2	16*3,8*1	1 (1)	12*14	Yes		20 DIP/SOP/SSOP		UIT370+UICE	
			LXT1, LXT2	4K*13	304	22	9(5/4)	8*2	16*3,8*1	1 (1)	12*14	Yes		24 SKDIP/SOP/SSOP	LVD/LVR		
			IRC, ERC,			25	12(5/7)			. ,				28 SKDIP/DIP/SOP	LVD/LVR, SPI	IT330+UICE	
EM78P330N			Crystal	8K*13	144	29	12(5/7)	8*1, 10*3	10*3	1 (1)	12*8	Yes		32 SKDIP/SOP/LQFP			
		2.1~5.5	IRC, ERC,			26	12(0/1)				10 or			28 SOP/SSOP	PWM*3, LVD/LVR, IRC, SPI, UART	IT360+UICE	
EM78F360N*	Flash	(2.3~5.5)	HXT1, HXT2,	8K*13	272	30	26(11/15)	8*5, (16*1)	8*3	4 (1)	8*12	32		32 DIP/SOP/QFN			
P500 series: AD	OC J CD T	,	LXT1, LXT2, High EFT/ESD Le			30					0 .2			32 DIF/3OF/QI N	07.11.11		
		Operating	Oscillation		SRAM		Interrupt		PWM	Compa-	ADC		Oper. Temp.				
Part No.	Туре	Voltage	Mode	(Bit)	(Byte)	I/O (Pins)	(Ex/In)	Timer Modules	(Bit*Ch)	rator	(Bit*Ch)	LCD (C*S)	(°C)	Package Type	Remark	ICE	
			Dual Clock,			27		0*0	0*0		12*7	4*12		32 SKDIP/SOP	SPI/UART,	ITEOON ALIJOE	
EM78P520N	OTP	2.3~5.5	ERIC,	8K*13	272	39	18(10/8)	8*3 or 8*1, 16*1	8*2 or 16*1	-	12*12	8*19		44 QFP/LQFP	Buzzer,	IT520N+UICE UIT520N+UICE	
LIVITOI 320IV			PLL, Crystal			43		0 1, 10 1	10 1		12*12	8*23	0~70	48 LQFP	LVD/LVR	UI15ZUN+UICE	
			Dual Clask			39		8*4 or	8*3 or		12*12	8*19	(-40~85)	44 QFP/LQFP	SPI/UART/I2C,		
EM78P528N*	OTP	2.1~5.5	Dual Clock, IRC, Crystal	8K*15	560		25(12/13)	8*2, 16*1	8*1, 16*1	-					Buzzer/Watch timer,	UIT400+UICE	
			irto, Oryotai			43		0 2, 10 1	0 1, 10 1		12*12	8*23		48 LQFP	LVD/LVR		
P460 series: LC			Ossillation	DDOM	CDAM		lest a server t		DWM	0	ADC		O T				
Part No.	Type	Operating Voltage	Oscillation Mode	(Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	ADC (Bit*Ch)	LCD (C*S)	Oper. Temp. (°C)	Package Type	Remark	ICE	
EM78P468N	. ypc	2.1~5.5 (2.3~5.5)	modo	4K*13	, , ,	28	8(3/5)	8*5	9*1	-	-	4*32	( 0)	44/64 QFP/LQFP	IR	IT468+UICE	
EM78P468NB*	ОТР	2.1~5.5	ERIC, Crystal,	4K*13	272	28	8(3/5)	8*5	9*1			4*32	0~70 (-40~85)	44/64 QFP/LQFP	IR, LVR, TBRD, LACLL/LJMP, XTAL RANGE CHOICE	IT468NB+UICE	
EM78P469N		(2.3~5.5) 2.5~5.5	PLL	8K*13	656	33	8(3/5)	8*5 or 8*3, 16*1	8*1	_	_	4*40	(-40~00)	44/64 QFP/LQFP	IR	PGB469+UICE	

P100 series: G	PIO/ADC	MCU														
Part No.	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compa- rator	ADC (Bit*Ch)	IRC	Oper. Temp. (°C)	Package Type	Remark	ICE
EM78P173N		04.55	IRC, ERC,			12								14 DIP/SOP 10MSOP	100 11/0 11/0 TDDD	UIT300+UICE
EM78P176N		2.1~5.5 (2.3~5.5)	HXT1, HXT2, XT, LXT1, LXT2	1K*13	48	18	4(3/1)	8*1	-	-	-	Yes	0~70 (-40~85)	20SSOP/SOP 18DIP/SOP 10 SSOP/MSOP	IRC, LVD, LVR, TBRD High EFT/ESD Level	UIT300+UICE
EM78P131A		2.3~5.5	IRC, ERC, HXT, LXT	1K*13	32	8	3(2/1)	8*1	-	-	•	Yes	0~70	10 MSOP	IRC, LVD	IT153+UICE
EM78P134N		2.1~5.5 (2.3~5.5)	IRC, ERC,	1K*13	48	8	5(3/2)	8*1	10*1	1 (3-Ch)	-	Yes	0~70 (-40~85)	10 MSOP/SSOP	LVR, 3-Ch Comp, TBRD, High EFT/ESD Level	IT163N+UICE
EM78P141	ОТР	2.1~5.5	HXT1, HXT2, XT,	1K*13	48	8	8(4/4)	8*3 (PWM Timer x	8*2	1	10*7	Yes		10 MSOP	LVR/LVD, IRC, Comp, TBRD	IT440 1110F
EM78P143		2.1~5.5	LXT1, LXT2	2K*13	80	8	8(4/4)	2) 8*3 (PWM Timer x	8*2	1	10*7	Yes	0~70	10 MSOP	LVR/LVD, IRC, Comp, TBRD	IT143+UICE
EM78P153A		2.3~5.5	IRC, ERC, HXT, LXT	1K*13	32	12	3(2/1)	8*1	-	-		Yes		14 DIP/SOP	IRC, LVD	IT153+UICE
EM78P163N		2.1~5.5 (2.3~5.5)	IRC, ERC, HXT1, HXT2,	1K*13	48	12/14	5(3/2)	8*1	10*1	1 (4-Ch)		Yes	0~70 (-40~85)	14/16 DIP/SOP	LVR, 4-Ch Comparator, TBRD, High EFT/ESD Level, 4-I/O pin with high voltage,	IT163N+UICE
EM78P164N		2.1~5.5 (2.3~5.5)	XT, DXT2, XT, LXT1, LXT2	1K*13	48	12/14	5(3/2)	8*1	10*1	1 (4-Ch)	-	Yes	0~70 (-40~85)	14/16 DIP/SOP	LVR, 4-Ch Comparator, TBRD, High EFT/ESD Level, 4-I/O pin with high voltage, (12V) open-drain (P164N only)	IT163N+UICE
Other series: A	Memory Type	Operating Voltage	Oscillation Mode	PROM (Bit)	SRAM (Byte)	I/O (Pins)	Interrupt (Ex/In)	Timer Modules	PWM (Bit*Ch)	Compar.	ADC (Bit*Ch)	IRC	Oper. Temp.	Package Type	Remark	ICE
EM78P259N		2.3~5.5 (2.5~5.5)	IRC, ERC, HXT, LXT	2K*13	80	11/13/15/17	10(3/7)	8*3, 16*1	9*1	1 (1)	12*4	Yes	0~70	14 DIP/SOP 16 SOP 18 DIP/SOP 20 DIP/SOP/SSOP	IR, IRC	IT259N+UICE
		(2.0-0.0)											(-40~85)	20 2.1. 7001. 70001		
EM78P418N	OTP		TIXT, EXT	4K*13	144	15/17/21	8(3/5)	8*4	10*3	1 (1)	12*8	Yes	(-40~85)	18 DIP/SOP 20 DIP/SOP	IRC	IT418N+UICE
EM78P418N EM78P507N	OTP	2.2~3.6	IRC, ERC, LXT, XT, HXT1, HXT2	4K*13 6K*13	144 272	15/17/21 41(I/O), 1(I) / 45(I/O), 1(I)	8(3/5) 22(10/12)	8*4 8*4, 16*1	10*3 8*2	1 (1)	12*8	Yes Yes	0~70	18 DIP/SOP	DA (10 Bits / 1-Ch), SPI/UART//2C, LVD	IT418N+UICE UIT507N+UICE
EM78P507N  MCU Line: EM77 Family			IRC, ERC, LXT,			41(I/O), 1(I) /	` '						0~70	18 DIP/SOP 20 DIP/SOP 24 SKDIP/SOP/SSOP 44 LQFP/QFP	DA (10 Bits / 1-Ch),	
EM78P507N MCU Line:	peed MCI		IRC, ERC, LXT, XT, HXT1, HXT2		272	41(I/O), 1(I) / 45(I/O), 1(I)	` '						0~70	18 DIP/SOP 20 DIP/SOP 24 SKDIP/SOP/SSOP 44 LQFP/QFP	DA (10 Bits / 1-Ch),	
EM78P507N  MCU Line: EM77 Family 24MIPS High S	peed MCI	J Operating	IRC, ERC, LXT, XT, HXT1, HXT2	6K*13	272 SRAM	41(I/O), 1(I) / 45(I/O), 1(I)	22(10/12)	8*4, 16*1	8*2 PWM	Compar.	12*24 ADC	Yes Serial	0~70 (-40~85) Oper. Temp. (°C)	18 DIP/SOP 20 DIP/SOP 24 SKDIP/SOP/SSOP 44 LQFP/QFP 48 LQFP	DA (10 Bits / 1-Ch), SPI/UART/I2C, LVD	UIT507N+UICE

Remark:

ADC=Analog to Digital Converter PWM=Pulse Width Modulation WDT=Watchdog Timer \* = Under Development

OP=Operational Amplifier LVD=Low Voltage Detector LVR=Low Voltage Reset TBT=Time Base Timer ERIC=External R Internal C DED=Differential Energy Detector CDA=Current D/A
DTMF=Dual Tone Multi Frequency
PLL=Phase Locked Loop

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