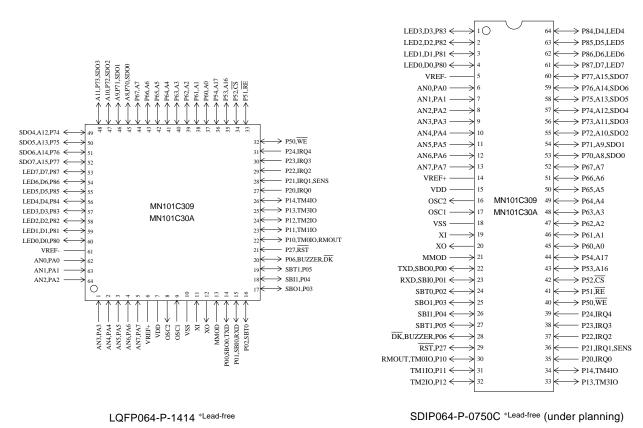
□ MN101C309 , MN101C30A

Туре	MN101C309	MN101C30A			
ROM (×8-bit)	24 K	32 K			
External memory can be expanded					
RAM (×8-bit)	1 K	1.5 K			
External memory can be expanded					
Package	LQFP064-P-1414 *Lead-free, SDIP064-P-0750C *Lead-free (under planning)				
(Conventional Package)	(SDIP064-P-0750)				
Minimum Instruction Execution Time	0.10 µs (at 4.5 V to	o 5.5 V, 20 MHz)			
	0.238 μs (at 2.7 V to 5.5 V, 8.39 MHz) 1.00 μs (at 2.0 V to 5.5 V, 2 MHz)*				
Interrupts	• RESET • Watchdog • External 0 • External 1 • External • Timer 1 • Timer 2 • Timer 3 • Timer 4 • Timer 5 • Tim				
	• Automatic transfer finish • A/D conversion finish				
Timer Counter	Timer counter 0 : 8-bit × 1 (square-wave/8-bit PWM output	it, event count, generation of remote control carrier)			
	Clock source				
	external clock input				
	Interrupt source coincidence with compare register 0				
	Timer counter 1 : 8-bit × 1 (square-wave output, event count, synchronous output event)				
	Clock source				
	external clock input Interrupt sourcecoincidence with compare register 1				
	Timer counter 0, 1 can be cascade-connected.				
	Timer counter 2 : 8-bit × 1 (square-wave/8-bit PWM output, event count, synchronous output event) Clock source				
	Timer counter 3 : 8-bit × 1				
	(square-wave output, event count, generation of remote)	control carrier, serial 0 baud rate timer)			
	Clock source				
	external clock input				
	Interrupt source coincidence with compare register 3				
	Timer counter 2, 3 can be cascade-connected.				
	Timer counter 4 : 16-bit × 1				
	(square-wave/16-bit PWM output, event count, synchronous output event, input capture)				
	Clock source				
	external clock input Interrupt source coincidence with compare register 4				
		-			
	Time base timer (one-minute count setting, independently	-			
	Clock source				
	Interrupt source coincidence with compa				
	Watchdog timer				
	Interrupt source 1/65536, 1/262144, 1/1	048576 of system clock frequency (POM option)			

Serial Interface			Serial 0 : synchronous type/simple UART (half-duplex) × 1 Clock source					
			: synchronous type × 1 Clock source 1/2, 1/8, 1/64 of system clock frequer	ncy; output of tin	ner coun	ter 3		
I/O Pins I/O		41 •						
	Input	13 •	Common use • Specified pull-up resistor available					
A/D Inputs		10-bit ×	8-ch. (with S/H)					
Special Ports	pecial Ports Buzzer output, remote control carrier signal output, high-current drive port							
Electrical Ch	aracteristics							
Supply curre	nt							
Devementer	Symbol	Condition	Limit		Uni			
Parameter		Symbol	Condition	min	typ	max		
Dperating supply current		IDD1	fosc = 20 MHz, VDD = 5 V		25	60	m	
		IDD2	fx = 32.768 kHz, VDD = 3 V		30	100	μ	
			fx = 32.768 kHz, VDD = 3 V, Ta = 25°C		4	8	μ	
		IDDA					m	
Supply current	at HALT	IDD3	$fx = 32.768 \text{ kHz}, \text{ VDD} = 3 \text{ V}, \text{ Ta} = 85^{\circ}\text{C}$			18	<u> </u>	
Supply current		IDD3	, , ,			18 2	μ <i>Α</i> μ <i>Α</i>	





(SDIP064-P-0750)

Support Tool

In-circuit Emulator	PX-ICE101C/D+PX-PRB101C30-LQFP064-P-1414		
EPROM Built-in Type	Туре	MN101CP30ABL	
	ROM (× 8-bit)	32 K	
	RAM (× 8-bit)	1.5 K	
	Minimum instruction execution time	0.10 µs (at 4.5 V to 5.5 V, 20 MHz)	
		0.238µs (at 2.7 V to 5.5 V, 8 MHz)	
	Package	LQFP064-P-1414 *Lead-free, SDIP064-P-0750C *Lead-free (under planning	
	(Conventional Package)	(SDIP064-P-0750)	

MN101C309, MN101C30A

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