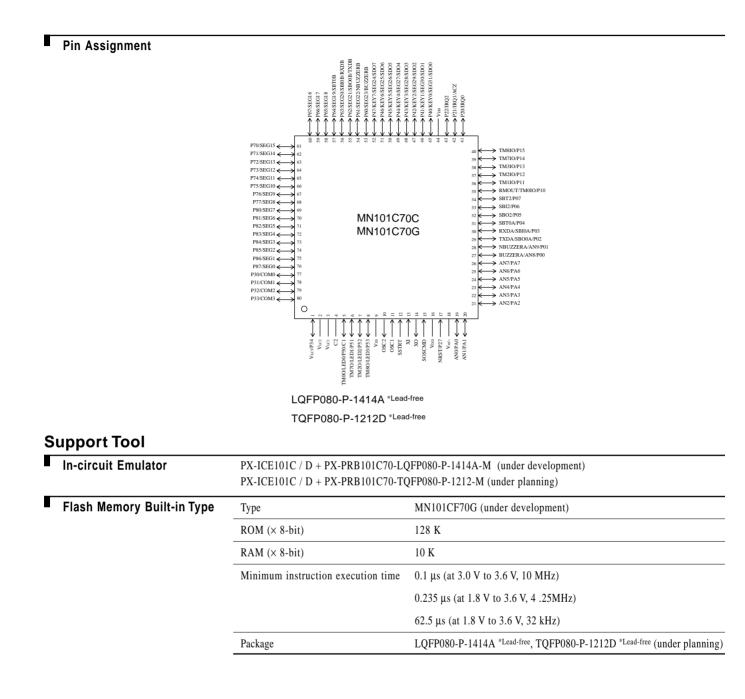
□ MN101C70C, MN101C70G

Туре	MN101C70C	MN101C70G(under planning)					
ROM (×8-bit)	48 K	128 K					
RAM (×8-bit)	2 K	10 K					
Package	LQFP080-P-1414A *Lead-free, TQFP080-P-1212D *Lead-free						
Minimum Instruction Execution Time	0.1 μs (at 3.0 V to 3.6 V, 10 MHz) 0.235 μs (at 1.8 V to 3.6 V, 4.25 MHz) 62.5 μs (at 1.8 V to 3.6 V, 32 kHz)						
Interrupts	 RESET • Watchdog • External 0 • External 1 • External 2 • External 4 (key interrupt dedicated) • Timer 0 Timer 1 • Timer 2 • Timer 3 • Timer 6 • Time base • Timer 7 (2 systems) • Timer 8 (2 systems) Serial 0 (2 systems) • Serial 2 • A/D conversion finish • Automatic transfer finish 						
Timer Counter	Timer counter 0 : 8-bit × 1 (square-wave/8-bit PWM output, event count, generation of remote control carrier, simple pulse width measurement, added pluse (2-bit) system PWM output, real time output control) (square-wave/PWM output to large current terminal P50 possible) Clock source						
	Timer counter 1 : 8-bit × 1 (square-wave output, event count, synchronous output event) Clock source ····································						
	Timer counter 0, 1 can be cascade-connected.						
	Timer counter 2 : 8-bit × 1 (square-wave output, added pluse (2-bit) system PWM output, PWM output, serial transfer clock output, real time output control, event count, synchronous output event, simple pulse width measurement) (square-wave/ PWM output to large current terminal P52 possible) Clock source						
	-	a clock frequency; 1/1, 1/4, 1/16, 1/64, 1/128 of OSC frequency; 1/1 of XI oscillation clock frequency; external					
	Timer counter 2, 3 can be cascade-connected.						
	-	ck frequency; 1/1, 1/128, 1/8192 of OSC oscillation clock /128, 1/8192 of XI oscillation clock frequency compare register 6					
	event, pulse width measurement, input capture, re Duty can be changed constantly)) (square-wave/P Clock source 1/1, 1/2, 1/4, 1/16 oscillation clock f	duty continuous variable), event count, synchronous output eal time output control, high performance IGBT output (Cycle/ WM output to large current terminal P51 possible) 6 of system clock frequency; 1/1, 1/2, 1/4, 1/16 of OSC frequency; 1/1, 1/2, 1/4, 1/16 of external clock input frequency compare register 7 (2 lines), input capture register					

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Timer Counte		Timer co	unter 8: 16 bit × 1						
(Continue)		(square-wave/16-bit PWM output [duty continuous variable], event count, pulse width measurement, input capture)							
		(square-wave/PWM output to large current terminal P53 possible)							
		(Clock source $1/1, 1/2, 1/4, 1/16$ of system clock frequency						
			1/1, 1/2, 1/4, 1/16 of OSC oscillation clock 1/1, 1/2, 1/4, 1/16 of external clock input fre		/;				
		Ι	interrupt source coincidence with compare register 8 (2 lines		apture re	gister			
		 Timer counters 7, 8 can be cascade-connected. (square-wave output, PWM is possible as a 32-bit timer.) Time base timer (one-minute count setting) Clock source							
			nterrupt source 1/65536, 1/262144, 1/1048576 of system clo	ock frequ	ency				
Serial Interface	ļ		: synchronous type/UART (full-duplex) \times 1 Clock source	-			;		
			: synchronous type/single-master I ² C × 1 Clock source	•			;		
I/O Pins	I/O	66 • Common use • Specified pull-up resistor available • Input/output selectable (bit unit)							
A/D Inputs		$10-bit \times 16-ch.$ (with S/H)							
LCD		32 segments \times 4 commons (static, 1/2, 1/3, or 1/4 duty)							
		-	ver supply separated from VDD (usable if VDD \leq VLCD \leq 3.6 V) ver step-up circuit contained (3/2, 2 and 3 times)						
		-	ver shunt resistance contained (52, 2 and 5 times) LCD reference voltage is contained	1.					
Special Ports			utput, remote control carrier signal output, high-current drive port						
Electrical Char	acteristics								
Supply current									
Parameter					Limit				
		Symbol	ol Condition	min	typ	max	Unit		
		IDD1	fosc = 4 MHz, VDD = 3 V		1	2	mA		
Operatingsupplycu	rrent	IDD2	fx = 32 kHz, VDD = 3 V		4	15	μA		
			- ,				•		
		IDD3	$fx = 32 \text{ kHz}$, VDD = 3 V Ta = 25°C		2	0			
SupplycurrentatHA	ιLT	IDD3 IDD4	$fx = 32 \text{ kHz}, \text{VDD} = 3 \text{ V}, \text{ Ta} = 25^{\circ}\text{C}$ $fx = 32 \text{ kHz}, \text{VDD} = 3 \text{ V}, \text{ Ta} = -40^{\circ}\text{C} \text{ to} +85^{\circ}\text{C}$		2	10 40			
SupplycurrentatHA	NLT				2		μΑ μΑ μΑ		



MN101C70C , MN101C70G 🗆

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