■ MN101C485 , MN101C487

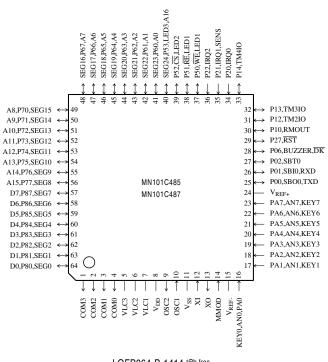
туре	Туре		MN101C485	MN101C487			
ROM (×8-bit)				16 K			
External memory can be	expanded						
RAM (×8-bit)		0.5 K		0.5 K			
External memory can be expanded							
Package			LQFP064-P-1414 *Pb fro	ee, TQFP064-P-1010B *Pb free			
Minimum Instruction Execution Time		0.10 μs (at 4.5 V to 5.5 V, 20 MHz) 0.25 μs (at 2.7 V to 5.5 V, 8 MHz) 125 μs (at 2.0 V to 5.5 V, 32 kHz)					
							Interrupts
Timer Counter		Timer counter 2: 8-bit × 1 (square-wave/8-bit PWM output, event count, synchronous output event) Clock source					
		m.	•	impare register 2			
		Timer counter 3: 8-bit × 1 (square-wave output, event count, generation of remote control carrier, serial 0 baud rate timer)					
		Clock source					
			Interrupt source coincidence with coi				
		Timer counter 2, 3 can be cascade-connected. Timer counter $4: 16$ -bit $\times 1$					
		(square-wave/16-bit PWM output, event count, synchronous output event, input capture) Clock source					
		Time base timer (one-minute count setting, independently operable 8-bit timer counter 5)					
			-	frequency; 1/1, 1/8192 of OSC oscillation clock frequency cillation clock frequency			
			Interrupt source ··········· coincidence with con	* *			
		Watchdog timer					
		Interrupt source 1/65536, 1/262144, 1/1048576 of system clock frequency (ROM option)					
Serial Interface		Serial 0 : synchronous type/simple UART (half-duplex) × 1 Clock source					
I/O Pins	/0	36	• Common use • Specified pull-up resistor avail • Specified pull-down resistor partially selectabl				
I	nput	11	• Common use • Specified pull-up resistor avail	lable • Specified pull-down resistor partially selectable			
A/D Inputs		10 -bit \times 8-ch. (with S/H)					
LCD		• 25	segments • 4 commons • Static • 1/2, 1/3, or 1/4	duty			
Special Ports			er output, remote control carrier signal output, hig				

Electrical Characteristics

Supply current

Parameter	Symbol	Condition		Limit		
ratameter	Syllibol	Condition	min	typ	max	Unit
Operating cumply current	IDD1	fosc = 8 MHz, VDD = 5 V		10	25	mA
Operating supply current	IDD2	fx = 32 kHz, VDD = 3 V		15	100	μA
Supply current at HALT	IDD3	fx = 32 kHz, VDD = 3 V, Ta = 25°C		4	8	μA
Supply current at HALI	IDD4	$fx = 32 \text{ kHz}, VDD = 3 \text{ V}, Ta = -40^{\circ}\text{C to } +85^{\circ}\text{C}$			30	μA
Supply current at STOP	IDD5	$VDD = 5 \text{ V}, \text{ Ta} = 25^{\circ}\text{C}$			1	μA
Supply cultent at STOP	כטטו	$VDD = 5 \text{ V}, \text{ Ta} = -40 ^{\circ}\text{C to } +85 ^{\circ}\text{C}$			25	μA

Pin Assignment



LQFP064-P-1414 *Pb free
TQFP064-P-1010B *Pb free

Support Tool

In-circuit Emulator	PX-ICE101C / D + PX-PRB101C09-TQFP064-P-1010B PX-ICE101C / D + PX-PRB101C09-LQFP064-P-1414			
EPROM Built-in Type	Туре	MN101CP487		
	ROM (× 8-bit)	16 K		
	RAM (× 8-bit)	0.5 K		
	Minimum instruction execution time	0.10 μs (at 4.5 V to 5.5 V, 20 MHz)		
		0.25 µs (at 2.7 V to 5.5 V, 8 MHz)		
		125 µs (at 2.3 V to 5.5 V, 32 KHz)		
	Package	LQFP064-P-1414 *Pb free, TQFP064-P-1010B *Pb free		

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