MN101C48 Series

Туре	MN101C485	MN101C487	MN101CP487				
Internal ROM type	Mask	EPROM					
ROM (byte)	8K	16	16K				
RAM (byte)	0.5K						
Package (Lead-free)	LQFP064-P-1414, TQFP064-P-1010B						
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)* *: The lower limit for operation guarantee for EPROM built-in type is 2.3 V.						

Interrupts

RESET. Watchdog. External 0 to 2. External 4. Timer 2 to 5. Time base. Serial 0. A/D conversion finish

Timer Counter

8-bit timer $\times 2$

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Timer 3 ......Square-wave output. Event count. Remote control carrier output. Serial 0 baud rate timer
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Timer 2, 3 can be cascade-connected

16-bit timer $\times 1$

Timer 4

Time base timer: One-minute count setting. Independently operable 8-bit timer 5 Watchdog timer \times 1

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Serial interface

Synchronous type/Simple UART (half-duplex) \times 1: Serial 0

I/O Pins

I/O 36: Common use. Specified pull-up resistor available. Input/output selectable (bit unit). Specified pull-down resistor partially selectable
Input 11: Common use. Specified pull-up resistor available. Specified pull-down resistor partially selectable

A/D converter

10-bit \times 8 channels (with S/H)

Display control function

LCD: 25 segments × 4 commons (Static, 1/2, 1/3, or 1/4 duty)

Special Ports

Buzzer output. Remote control carrier output. High-current drive port

Electrical Charactreistics (Supply current)

Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	Unit
Operating supply current	IDD1	fosc = 8 MHz. VDD = 5 V		10	25	mA
	IDD2	fx = 32 kHz. $VDD = 3 V$		15	100	μΑ
Supply current at HALT	IDD3	fx = 32 kHz. VDD = 3 V. Ta = 25 °C		4	8	μΑ
	IDD4	fx = 32 kHz. VDD = 3 V. Ta = -40 °C to +85 °C			30	μΑ
Supply current at STOP	IDD5	VDD = 5 V. Ta = 25 °C			1	μΑ
		$VDD = 5 V. Ta = -40 \circ C to +85 \circ C$			25	μΑ

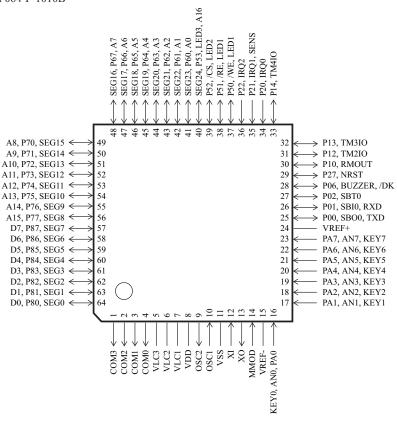
Development tools

In-circuit Emulator

PX-ICE101C/D + PX-PRB101C48-TQFP064-P-1010B PX-ICE101C/D + PX-PRB101C48-LQFP064-P-1414

Pin Assignment

LQFP064-P-1414, TQFP064-P-1010B



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