MN101C73 Series

Туре	MN101C73A	MN101CF73A			
Internal ROM type	Mask ROM	FLASH			
ROM (byte)	32K				
RAM (byte)	1.5K	2K			
Package (Lead-free)	LQFP064-P-1414, TQFP064-P-1010C				
Minimum Instruction Execution Time	0.1 μ s (at 3.0 V to 3.6 V, 10 MHz) 0.235 μ s (at 1.8 V to 3.6 V, 4.25 MHz)* 62.5 μ s (at 1.8 V to 3.6 V, 32 kHz)* *: The lower limit for operation guarantee for flash memory built-in type is 2.2 V.				

■ Interrupts

RESET. Watchdog. External 0 to 5. External 6 (key interrupt dedicated). Timer 0 to 3. Timer 6. Timer 7 (2 systems). Timer 8 (2 systems). Time base. Serial 0 (2 systems). Serial 1 (2 systems). Serial 3. A/D conversion finish

■ Timer Counter

8-bit timer \times 5

Timer 0	
Added pulse (2-bit) type PWM output. Square-wave/PWM output to large current terminal P50 possible	
Timer 1Square-wave output. Event count. Synchronous output event	
Timer 2Square-wave output. Added pulse (2-bit) type PWM output. PWM output. Serial transfer clock output. Event	
count. Synchronous output event. Simple pulse width measurement. Square-wave/PWM output to large current	
terminal P51 possible	
Timer 3Square-wave output. Event count. Serial transfer clock output	
Timer 68-bit freerun timer	

Timer 0, 1 can be cascade-connected

Timer 2, 3 can be cascade-connected

16-bit timer \times 2

Timer 7Square-wave output. 16-bit PWM output (cycle/duty continuous variable). Event count. Synchronous output event. Pulse width measurement. Input capture. Real time output control. High performance IGBT output. Squarewave/PWM output to large current terminal P52 possible

Timer 8Square-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

Timer 7, 8 can be cascade-connected: Square-wave output, PWM is possible as a 32-bit timer

Time base timer: One-minute count setting

Watchdog timer × 1

■ Serial interface

Synchronous type/UART (full-duplex) × 2: Serial 0, 1 Synchronous type/Single-master I²C × 1: Serial 3

■ I/O Pins

I/O 55: Common use. Specified pull-up resistor available. Input/output selectable (bit unit)

■ A/D converter

10-bit \times 12 channels (with S/H)

■ Display control function

LCD: 32 segments × 4 commons (Static, 1/2, 1/3, or 1/4 duty) Usable if VLCD ≤ VDD

LCD power shunt resistance contained

Special Ports

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

■ ROM Correction

Correcting address designation: Up to 3 addresses possible

Panasonic MAD00047FEM

■ Electrical Charactreistics (Supply current)

Parameter	Symbol	Condition	Limit			Unit
		Condition		typ	max	Offic
Operating supply current	IDD1	fosc = 4 MHz. $VDD = 3 V$		1	1.8	mA
	IDD2	fx = 32 kHz. VDD = 3 V		4	15	μΑ
Supply current at HALT	IDD3	fx = 32 kHz. VDD = 3 V. Ta = 25 °C		2	5	μΑ
	IDD4	$fx = 32 \text{ kHz. VDD} = 3 \text{ V. Ta} = -40 ^{\circ}\text{C to} +85 ^{\circ}\text{C}$			10	μΑ
Supply current at STOP	IDD5	$VDD = 3 \text{ V. } Ta = 25 ^{\circ}\text{C}$			2	μΑ
	IDD6	$VDD = 3 \text{ V. } Ta = -40 ^{\circ}\text{C to } +85 ^{\circ}\text{C}$			8	μΑ

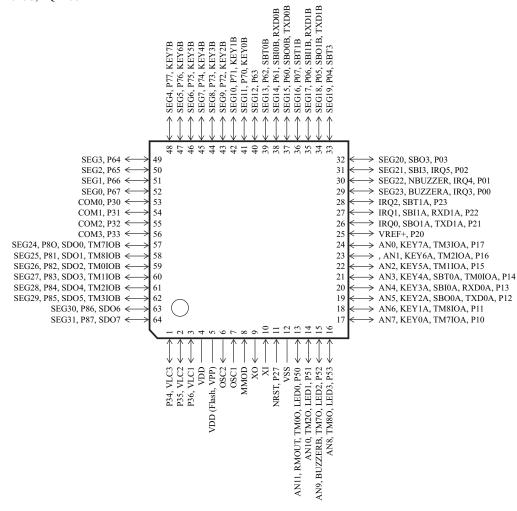
■ Development tools

In-circuit Emulator

PX-ICE101C/D + PX-PRB101C73-TQFP064-P-1010C-M PX-ICE101C/D + PX-PRB101C73-LQFP064-P-1414-M

■ Pin Assignment

TQFP064-P-1010C, LQFP064-P-1414



MAD00047FEM Panasonic

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