MN101E16 Series

Туре	MN101E16K	MN101E16Y	MN101EF16K	MN101EF16Z
Internal ROM type	Mask ROM		FLASH	
ROM (byte)	256K	384K	260K	512K
RAM (byte)	12K	20K	16K	30K
Package (Lead-free)	LQFP100-P-1414, QFP100-P-1818B	QFP100-P-1818B	LQFP100-P-1414, QFP100-P-1818B	QFP100-P-1818B
Minimum Instruction Execution Time	0.0588 μs (at 2.7 V to 3.6 V, 17 MHz, at internal 2, 4, 8 times oscillation)) 0.1 μs (at 2.7 V to 3.6 V, 20 MHz) 30.6 μs (at 2.7 V to 3.6 V, 32.768 kHz)			

■ Interrupts

RESET. Watchdog. External 0 to 5. Timer 0 to 3. Timer 6. Timer 7 (2 systems). Timer A to E. Time base. Serial 0 (2 systems). Serial 1 (2 systems). Serial 2. Serial 3 (2 systems). Serial 4 (2 systems). Automatic transfer finish (2 systems). A/D conversion finish. Key interrupt

■ Timer Counter

8-bit timer \times 10

Timer 0Square-wave/8-bit PWM output. Event count. Pulse width measurement. Real time output control

Timer 1Square-wave output. Event count. Synchronous output event

Timer 2Square-wave/8-bit PWM output. Event count. Synchronous output event. Pulse width measurement. Real time output control. Serial baud rate timer

Timer 3Square-wave output. Event count. Serial baud rate timer

Timer 68-bit freerun timer. Time base timer

Timer A, B, C, D, E

Timer 0, 1 can be cascade-connected

Timer 0, 1, 2 can be cascade-connected

Timer 2, 3 can be cascade-connected

Timer 0, 1, 2, 3 can be cascade-connected

16-bit timer \times 1

Timer 7Square-wave/16-bit PWM output (cycle/duty continuous variable). Event count. Synchronous output event. Pulse width measurement. Input capture

Time base timer: One-minute count setting

Watchdog timer × 1

■ Serial interface

Synchronous type/UART (full-duplex) \times 3: Serial 0, 1, 4 Synchronous type/Single-master I²C \times 1: Serial 2

Synchronous type/ $I^2C \times 1$: Serial 3

■ DMA controller

Number of channels: 2 channels Maximum transfer cycles: 255

Starting factor: External request. Various types of interrupt. Software Transfer mode: 1-byte transfer. Word transfer. Burst transfer

■ I/O Pins

I/O 22: (5 V I/F port) Common use. Specified pull-up resistor available. Input/output selectable (bit unit)

62: (3 V I/F port) Common use. Specified pull-up resistor available. Input/output selectable (bit unit)

1: (3 V I/F port) Common use

■ A/D converter

10-bit × 8 channels (with S/H)

■ Special Ports

Buzzer output. High-current drive port

■ ROM Correction

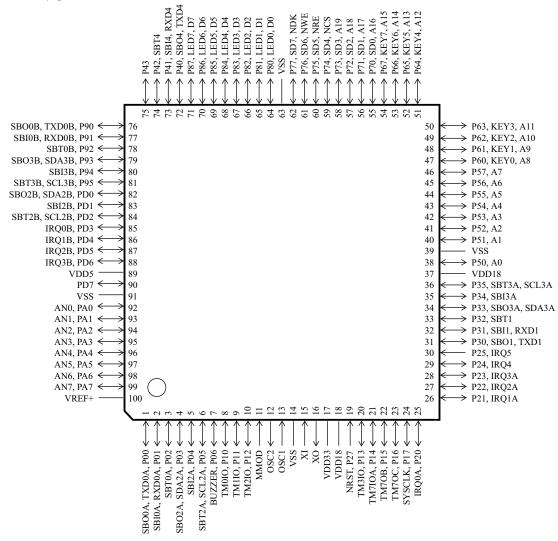
Correcting address designation: Up to 7 addresses possible

Panasonic MAD00046LEM

MN101E16K, MN101E16Y, MN101EF16K, MN101EF16Z □

■ Pin Assignment

LQFP100-P-1414, QFP100-P-1818B



MAD00046LEM Panasonic

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