

□ MN101E34 Series

Type	MN101EF34D
Internal ROM type	FLASH
ROM (byte)	64K+4K
RAM (byte)	4K
Package (Lead-free)	TQFP048-P-0707B
Minimum Instruction Execution Time	0.042 μ s (at 2.2 V to 5.5 V, 24 MHz) 62.5 μ s (at 2.2 V to 5.5 V, 32 kHz)

■ Interrupts

RESET. Watchdog. External 0 to 4. External 5 (key interrupt dedicated). External 6. Timer 0 to 4. Timer 6. Timer 7 (2 systems). Timer 8 (2 systems). Timer 9 (2 systems). Time base. Serial 1 (2 systems). Serial 2 (2 systems). Serial 4 (2 systems). A/D conversion finish

■ Timer Counter

8-bit timer \times 6

Timer 0Square-wave output. PWM output. Event count. Simple pulse width measurement. Square-wave/PWM output to large current terminal P03 (TM0IOB) possible

Timer 1Square-wave output. Event count

Timer 2Square-wave output. PWM output. Event count. Simple pulse width measurement. Square-wave/PWM output to large current terminal P03 (TM2IOB) possible

Timer 3Square-wave output. Event count

Timer 4Square-wave output. PWM output. Event count. Simple pulse width measurement. Square-wave/PWM output to large current terminal P02 (TM4IOC) possible

Timer 68-bit freerun timer

Timer 0, 1 can be cascade-connected

Timer 2, 3 can be cascade-connected

Timer 0, 1, 2 can be cascade-connected

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

16-bit timer \times 3

Timer 7Square-wave output. PWM output (cycle/duty continuous variable). Event count. Pulse width measurement. Input capture. Square-wave/PWM output to large current terminal P00 (TM7IOB) possible

Timer 8Square-wave output. PWM output (cycle/duty continuous variable). Event count. Pulse width measurement. Input capture. Square-wave/PWM output to large current terminal P01 (TM8IOB) possible

Timer 9Square-wave output. PWM output (cycle/duty continuous variable). Event count. Pulse width measurement. Input capture

Time base timer: One-minute count setting

Watchdog timer \times 1

■ Serial interface

Synchronous type/UART (full-duplex) \times 2: Serial 1, 2

Synchronous type/Multi-master I²C \times 1: Serial 4

Serial 4.....7-bit/10-bit address setting. General call

■ I/O Pins

I/O 39: Common use. Specified pull-up resistor available. Input/output selectable (bit unit)

■ A/D converter

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

■ Extended Calculation

16-bit \times 16-bit multiplication. 32-bit / 16-bit division

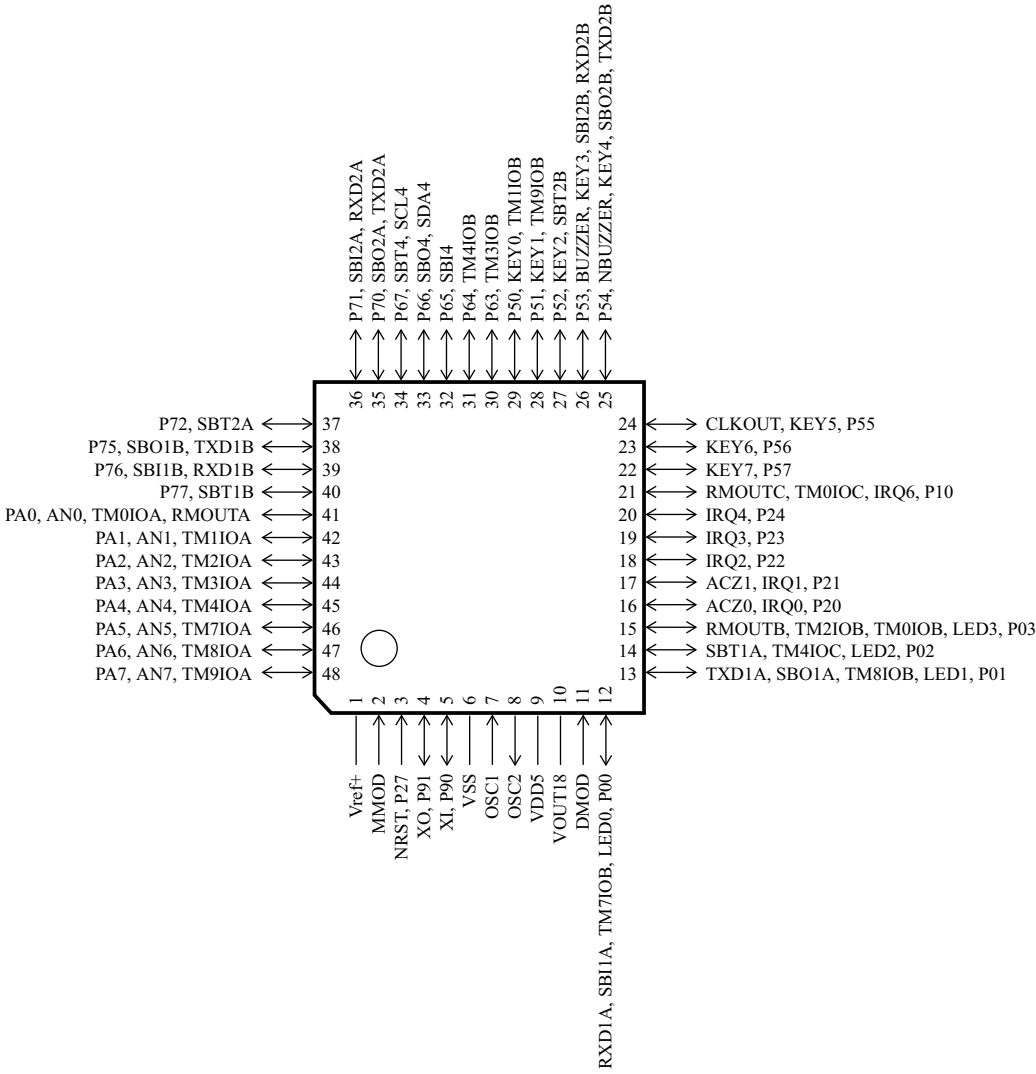
■ Special Ports

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

■ ROM Correction

Correcting address designation: Up to 7 addresses possible

■ Pin Assignment
TQFP048-P-0707B



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