MN101EF34D

Туре	MN101EF34D
Internal ROM type	FLASH
ROM (byte)	64K+4K
RAM (byte)	4K
Package (Lead-free)	TQFP048-P-0707B (Under development)
Minimum Instruction	0.042 μs (at 2.2 V to 5.5 V, 24 MHz)
Execution Time	62.5 μs (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

■ Timer Counter

finish Timer counter 0:8-bit $\times 1$ (square-wave output, PWM output, event count, simple pulse width measurement) (square-wave/PWM output to large current terminal P03 (TM0IOB) possible) XI oscillation clock frequency; external clock input Interrupt source coincidence with compare register 0 Timer counter 1:8-bit × 1 (square-wave output, event count, serial transfer clock) XI oscillation clock frequency; external clock input Interrupt source coincidence with compare register 1 Timer counter 0, 1 can be cascade-connected. Timer counter 2: 8-bit \times 1 (square-wave output, PWM output, event count, simple pulse width measurement, serial transfer clock) (square-wave/PWM output to large current terminal P03 (TM2IOB) possible) XI oscillation clock frequency; external clock input Interrupt source coincidence with compare register 2 Timer counter 3 : 8-bit × 1 (square-wave output, event count) XI oscillation clock frequency; external clock input Interrupt source coincidence with compare register 3 Timer counter 2, 3 can be cascade-connected. Timer counter 4:8-bit × 1 (square-wave output, PWM output, event count, simple pulse width measurement) XI oscillation clock frequency; external clock input Interrupt source coincidence with compare register 4 Timer counter 6: 8-bit freerun timer of XI oscillation clock frequency Interrupt source coincidence with compare register 6 Timer counter 7: 16-bit \times 1 (square-wave output, PWM output (cycle / duty continuous variable), event count, pulse width measurement, input

(square-wave/PWM output to large current terminal P00 (TM7IOB) possible)

1/2, 1/4, 1/16 of external clock input frequency Interrupt source coincidence with compare register 7 (2 lines), input capture register

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Timer counter 8 : 16 bit \times 1

(square-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)

Interrupt source coincidence with compare register 8 (2 lines), input capture register

Timer counter 9: 16 bit \times 1

(square-wave output, PWM output (cycle / duty continuous variable), event count, pulse width measurement, input capture)

Interrupt source coincidence with compare register 9 (2 lines), input capture register

Time base timer (one-minute count setting)

Watchdog timer

Interrupt source 1/65536, 1/262144, 1/1048576 of system clock frequency

■ Serial interface

Serial 1 : synchronous type/UART (full-duplex) × 1

Serial 2 : synchronous type/UART (full-duplex) × 1

Serial 4: synchronous type/multi-master I²C × 1(applicable for 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-ch. (with S/H)

Special Ports

Buzzer output, remote control carrier signal output, high-current drive port, clock output

■ ROM Correction

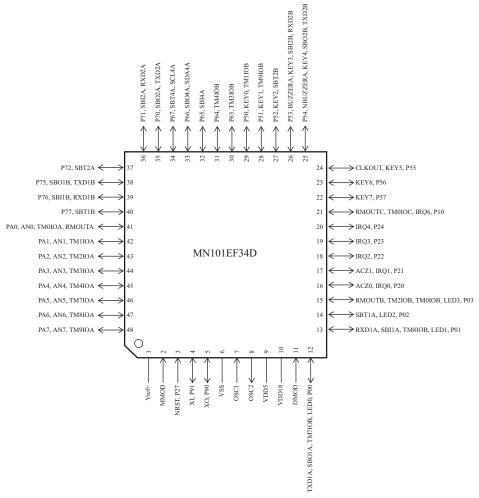
Correcting address designation : up to 7 addresses possible

■ Development tools

In-circuit Emulator (Under development)

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■ Pin Assignment



TQFP048-P-0707B

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