MN101CF96D, MN101CF96F

| Туре | MN101CF96D | MN101CF96F |
|---------------------------------------|--|------------|
| Internal ROM type | FLASH | |
| ROM (byte) | 64K | 96K |
| RAM (byte) | 3К | 6К |
| Package (Lead-free) | LQFP064-P-1414 (Under planning) | |
| Minimum Instruction Execution Time | [Standard] 0.2 µs (at 2.7 V to 3.6 V, 10 MHz) 0.5 µs (at 2.7 V to 3.6 V, 4 MHz) 62.5 µs (at 2.7 V to 3.6 V, 32 kHz) [Double speed] 0.1 µs (at 2.7 V to 3.6 V, 10 MHz) | |

Interrupts

RESET, Watchdog, External 0 to 5, Timer 0 to 8, Time base, Serial 0 reception, Serial 0 transmission, Serial 1 reception, Serial 1 transmission, Serial 2, Serial 3, Automatic transfer finish, A/D conversion finish, Key interrupts (8 lines)

Timer Counter

Timer counter 0 : 8-bit \times 1

(square-wave/8-bit PWM output, event count, pulse width measurement, serial clock output, real-time output control, generation of remote control carrier)

Timer counter 1 : 8-bit × 1 (square-wave output, event count, synchronous output event, serial clock output)

Clock source...... 1/2, 1/8 of system clock frequency; 1/1, 1/4, 1/16, 1/64, 1/128 of OSC oscillation clock frequency; 1/1 of 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

Timer counter 0, 1, 2 can be cascade-connected.

Interrupt source coincidence with compare register 3

Timer counter 2, 3 can be cascade-connected.

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

Timer counter 4 : 8-bit \times 1

Interrupt source coincidence with compare register 4

Timer counter 5 : 8-bit \times 1

(square-wave/8-bit PWM output, event count, pulse width measurement, serial clock output)

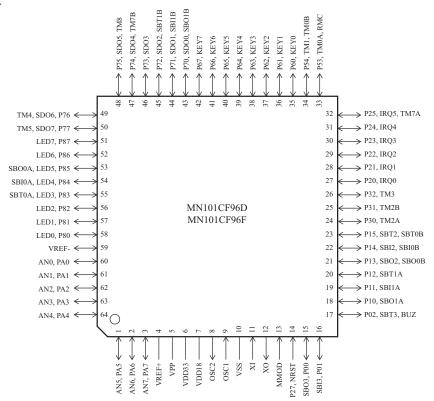
Clock source...... 1/2, 1/8 of system clock frequency; 1/1, 1/4, 1/16, 1/64, 1/128 of OSC oscillation clock frequency; 1/1 of XI oscillation clock frequency; external clock input

Interrupt source coincidence with compare register 5

Timer counter 4, 5 can be cascade-connected.

| Timer counter 6 : 8-bit freerun timer |
|---|
| Clock source |
| Interrupt source coincidence with compare register 6 |
| Timer counter 7 : 16-bit × 1 (square-wave/16-bit PWM output, cycle / duty continuous variable, event count, synchronous output evevt, pulse width measurement, input capture, real-time output control) Clock source |
| Timer counter 8 : 16-bit × 1 (square-wave output, PWM output (duty continuous variable), event count, pulse width measurement, input capture) Clock source |
| Time base timer (one-minute count setting) Clock source |
| Watchdog timer Interrupt source |
| Serial interface Serial 0 : synchronous type / UART (full-duplex) × 1 Clock source |
| Serial 1 : synchronous type / UART (full-duplex) × 1 Clock source 1/2, 1/4 of system clock frequency; pulse output of timer counter 2, 3; 1/2, 1/4, 1/16, 1/64 of OSC oscillation clock frequency |
| Serial 2 : synchronous type / multi-master I ² C × 1 Clock source 1/2, 1/4 of system clock frequency; pulse output of timer counter 3, 4; 1/2, 1/4, 1/16, 1/32 of OSC oscillation clock frequency |
| Serial 3 : synchronous type / single-master I ² C × 1 Clock source 1/2, 1/4 of system clock frequency; pulse output of timer counter 4, 5; 1/2, 1/4, 1/16, 1/32 of OSC oscillation clock frequency |
| DMA controller Max. Transfer cycles : 255 Starting factor : various types of interrupt, software Transfer mode : 1-byte transfer, word transfer, burst transfer |
| I I/O Pins |
| I/O 51 Common use , Specified pull-up resistor available, Input/output selectable (bit unit) |
| A/D converter 10-bit × 7-ch. (with S/H) |
| Special Ports Buzzer output, remote control carrier signal output, high-current drive port |
| Development tools In-circuit Emulator PX-ICE101C/D+PX-PRB101C96-LQFP064-P-1414 |
| |

Pin Assignment



LQFP064-P-1414

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