MN101E29G

Туре	MN101E29G	MN101EF29G
Internal ROM type	Mask ROM	FLASH
ROM (byte)	128K	
RAM (byte)	6K	
Package (Lead-free)	QFP100-P-1818B (Under development)	
Minimum Instruction Execution Time	50 ns (at 2.2 V to 5.5 V, 20 MHz) * at internal 2, 3, 4, 5, 6, 8, 10 times oscillation used	50 ns (at 2.2 V to 5.5 V, 20 MHz)

■ Interrupts

6 external interrupts, 28 internal interrupts

RESET, Watchdog, External 0 to 4, Timer 0 to 4, Timer 6, Timer 7 (2 systems), Timer 8 (2 systems), Timer 9 (2 systems), Time base, Serial 0 (2 systems), Serial 1 (2 systems), Serial 2 (2 systems), Serial 3 (2 systems), Serial 4, Serial 5, A/ D conversion finish, Automatic transfer (2 systems), Key interrupts

■ Timer Counter

Timer counter 0: 8-bit × 1

(timer pulse output, event count, added pulse (2-bit) system PWM output, generation of remote control carrier, simple pulse measurement, real time output control)

Timer counter 1:8-bit \times 1

(timer pulse output, event count, 16-bit cascade connected (timer 0, 1) timer synchronous output event)

Timer counter 2 : 8-bit \times 1

(timer pulse output, event count, added pulse (2-bit) system PWM output, simple pulse measurement, 24-bit cascade connected (timer 0, 1, 2), timer synchronous output event, real timer output control)

Timer counter 3 : 8-bit \times 1

(timer pulse output, event count, generation of remote control carrier, 16-bit cascade connected (timer 2, 3), 32-bit cascade connected (timer 0, 1, 2, 3))

Timer counter 4:8-bit \times 1

(timer pulse output, added pulse (2-bit) system PWM output, event count, serial transfer clock, simple pulse measurement)

Timer counter 6: 8-bit free run timer, time base timer

Timer counter 7: 16-bit \times 1

(timer pulse output, event count, High accuracy PWM, High performance IGBT output (cycle/duty continuous variable) timer synchronous output event, input capture (Both edge available), real timer output control), double buffer compare register

Timer counter 8: 16-bit × 1

(timer pulse output, event count, High accuracy PWM output (cycle/duty continuous variable) pulse width measurement, input capture (Both edge available), 32-bit cascade connected (Timer 7, 8), 32-bitPWM output, synchronous output event), double buffer compare register

Timer counter 9 : 16-bit \times 1

(timer pulse output, event count, High accuracy PWM output (cycle/duty continuous variable), pulse width measurement, input capture (Both edge available), real timer output control), double buffer compare register

Timer counter A: 8-bit × 1 (event count, Serial transfer clock timer, clock for function (timer, serial, LCD))

Watchdog timer

■ Serial interface

Serial 0 ~ 3 : UART (full duplex) / synchronous \times 1 Serial 4 : multi master I^2C / synchronous \times 1

Serial 5: I2C slave × 1

DMA controller

2 systems (External request/internal event request/software request maximum transfer cycles are 255)

I/O Pins

	ī	
I/O	90	common use, Specified pull-up/pull-down resistor available, Input/output selectable (bit-unit)

Panasonic MAD00062AEM

■ A/D converter

10-bit × 16-ch.

■ D/A converter

8-bit \times 4-ch.

■ Display control function

LCD

55 segments × 4 commons (static, 1/2, 1/3, 1/4 duty) 1/3 bias, Usable if VLC1 ≤ VDD

Special Ports

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

■ ROM Correction

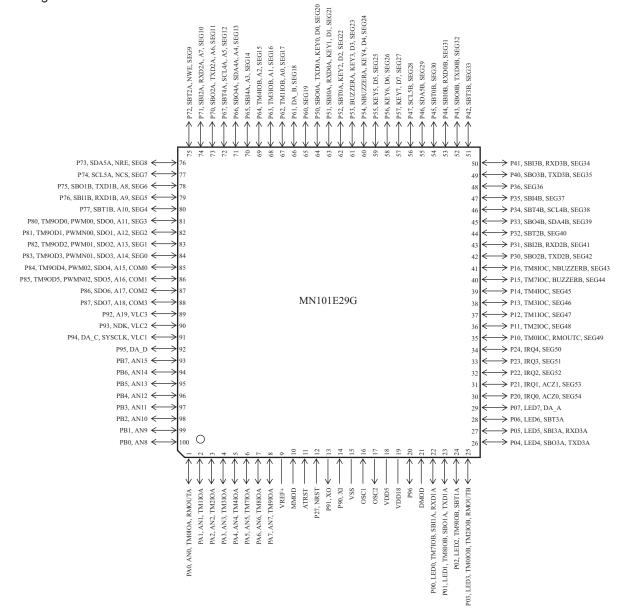
Correcting address designation: up to 7 addresses possible

Development tools

In-circuit Emulator

PX-ICE101E + PRBV101E29-QFP100-P-1818B (Under development)

■ Pin Assignment



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