Notification about the transfer of the semiconductor business

The semiconductor business of Panasonic Corporation was transferred on September 1, 2020 to Nuvoton Technology Corporation (hereinafter referred to as "Nuvoton"). Accordingly, Panasonic Semiconductor Solutions Co., Ltd. became under the umbrella of the Nuvoton Group, with the new name of Nuvoton Technology Corporation Japan (hereinafter referred to as "NTCJ").

In accordance with this transfer, semiconductor products will be handled as NTCJ-made products after September 1, 2020. However, such products will be continuously sold through Panasonic Corporation.

Publisher of this Document is NTCJ.

If you would find description "Panasonic" or "Panasonic semiconductor solutions", please replace it with NTCJ.

* Except below description page

"Request for your special attention and precautions in using the technical information and semiconductors described in this book"

Nuvoton Technology Corporation Japan

MN101E34 Series

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

Timer Counter

8-bit timer $\times 6$

o-bit tiller × o	
Timer 0	
Timer 1	
Timer 2	
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 8	
Timer 9	
Time base timer: One-minute count setting	
Watchdog timer × 1	

Serial interface

Synchronous type/UART (full-duplex) × 2: Serial 1, 2 Synchronous type/Multi-master I²C × 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 × 16-bit multiplication. 32-bit / 16-bit division

Special Ports

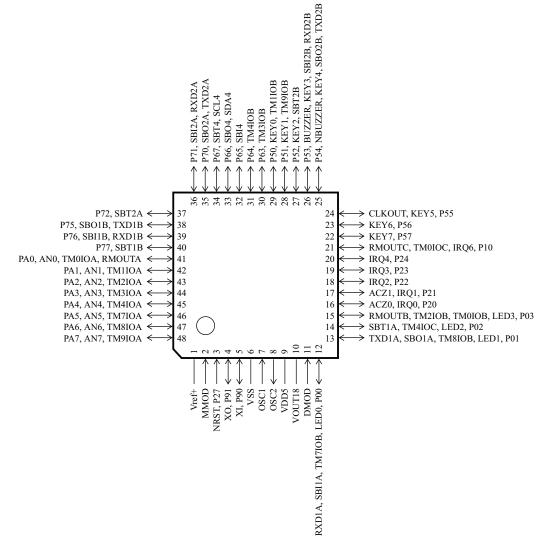
Buzzer output. Remote control carrier output. High-current drive port. Clock output

ROM Correction

Correcting address designation: Up to 7 addresses possible

Panasonic

■ Pin Assignment TQFP048-P-0707B



Request for your special attention and precautions in using the technical information and semiconductors described in this book

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- (2) The technical information described in this book is intended only to show the main characteristics and application circuit examples of the products. No license is granted in and to any intellectual property right or other right owned by Panasonic Corporation, Nuvoton Technology Corporation Japan or any other company. Therefore, no responsibility is assumed by our company as to the infringement upon any such right owned by any other company which may arise as a result of the use of technical information de-scribed in this book.
- (3) The products described in this book are intended to be used for general applications (such as office equipment, communications equipment, measuring instruments and household appliances), or for specific applications as expressly stated in this book.

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