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

MN101C95 Series

Туре	MN101CF95G
Internal ROM type	FLASH
ROM (byte)	128K
RAM (byte)	6К
Package (Lead-free)	TQFP080-P-1212D
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. Serial 4 reception. Serial 4 transmission. Automatic transfer finish. A/D conversion finish. Key interrupts (12 lines)

■ Timer Counter

8-bit timer \times 7	
Timer 0	Square-wave/8-bit PWM output. Event count. Pulse width measurement. Serial transfer clock output. Real time output control. Remote control carrier output
Timer 1	
	Square-wave output. PWM output. Event count. Pulse width measurement. Timer synchronous output. Serial transfer clock output
Timer 3	Square-wave output. Event count. Serial transfer clock output
	Square-wave/8-bit PWM output. Event count. Pulse width measurement. Real time output control. Serial transfer clock output
Timer 5	Square-wave/8-bit PWM output. Event count. Pulse width measurement. Serial transfer clock output
Timer 6	8-bit freerun timer
Timer 0, 1 can b	e cascade-connected
Timer 0, 1, 2 ca	n be cascade-connected
Timer 2, 3 can b	e cascade-connected
Timer 0, 1, 2, 3	can be cascade-connected
Timer 4, 5 can b	e cascade-connected
16-bit timer $\times 2$	
Timer 7	Square-wave/16-bit PWM output (cycle/duty continuous variable). Event count. Synchronous output event. Pulse width measurement. Input capture. Real time output control
Timer 8	Square-wave output. PWM output (duty continuous variable). Event count. Pulse width measurement. Input capture
Time base timer: Or	ne-minute count setting
Watchdog timer $\times 1$	
Serial interface	
Synchronous type/U	ART (full-duplex) × 3: Serial 0, 1, 4
Synchronous type/M	fulti-master $I^2C \times 1$: Serial 2

Synchronous type/Multi-master $I^{-}C \times I^{+}$ Serial 2 Synchronous type/Single-master $I^{2}C \times I^{+}$ Serial 3

DMA controller

Maximum transfer cycles: 255 Starting factor: Various types of interrupt. Software Transfer mode: 1-byte transfer. Word transfer. Burst transfer

■ I/O Pins

I/O 67 : Common use. Specified pull-up resistor available. Input/output selectable (bit unit)

■ A/D converter

10-bit × 11 channels (with S/H)

Extended Calculation

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

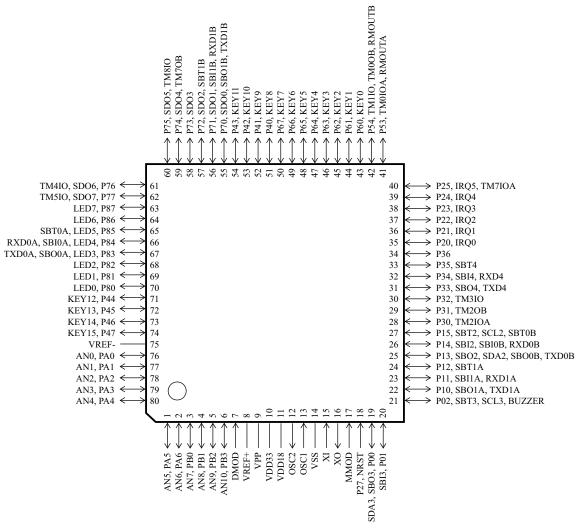
Panasonic

Special Ports

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

Pin Assignment

TQFP080-P-1212D



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