# ■ MN101C35D

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Туре	MN101C35D 64 K						
ROM (x8-bit)							
RAM (×8-bit)	2 K						
Package	QFP100-P-1818B *Lead-free						
Minimum Instruction Execution Time	0.25 μs (at 2.7 V to 5.5 V, 8 MHz) 125 μs (at 2.2 V to 5.5 V, 32 kHz)*  * The lower limit for operation guarantee for EPROM built-in type is 2.7 V.						
Interrupts	• RESET • Watchdog • External 0 • External 1 • External 2 • External 3 • External 4 • Timer 0 • Timer 1 • Timer 2 • Timer 3 • Timer 4 • Timer 5 • Time base • Serial 0 • Serial 1 • Serial 2 • Automatic transfer finish • A/D conversion finish • Key scan						
Timer Counter	Timer counter 0: 8-bit × 1 (square-wave/8-bit PWM output, event count, generation of remote control carrier)  Clock source						
	Timer counter 1:8-bit × 1 (square-wave output, event count, synchronous output event)  Clock source						
	Timer counter 0, 1 can be cascade-connected.						
	Timer counter 2: 8-bit × 1 (square-wave/8-bit PWM output, event count, synchronous output event)  Clock source						
	Timer counter 3: 8-bit × 1  (square-wave output, event count, generation of remote control carrier, serial 0 baud rate timer)  Clock source						
	Timer counter 2, 3 can be cascade-connected.						
	Timer counter 4: 16-bit × 1  (square-wave/16-bit PWM output, event count, synchronous output event, input capture)  Clock source						
	Time base timer (one-minute count setting, independently operable 8-bit timer counter 5)  Clock source						
	Watchdog timer Interrupt source 1/2097152 of system clock frequency						
Serial Interface	Serial 0 : synchronous type/simple UART (half-duplex) × 1 Clock source						
	Serial 1: synchronous type $\times$ 1 Clock source $\cdots$ 1/2, 1/8, 1/64 of system clock frequency; 1/2 of timer counter 3 frequency						
	Serial 2 : synchronous type/simple $I^2C \times 1$ Clock source						

Panasonic MAD00024DEM

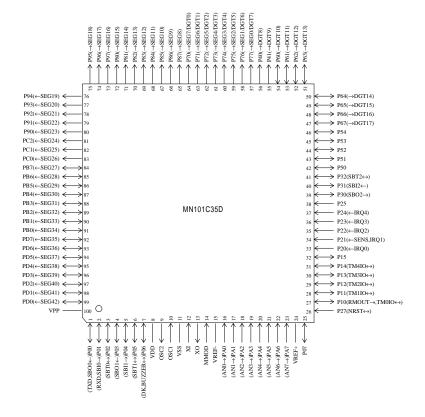
I/O Pins I/O			Ommon use: 28 • Specified pull-up resistor available • Input/output selectable (bit unit)		
	High Voltage	53	• Output: 29 • I/O: 24 • P-ch open drain (breakdown voltage -30V): FL drive: 53 • Specified pull-down resistor mask option: 35		
A/D Inputs		8-bit	× 8-ch. (with S/H)		
FL		(35 t	o 43) segments × (18 to 10) digits		
Special Ports		Buzz	ter output, remote control carrier signal output		
EL 4 1 101					

#### Electrical Characteristics

#### Supply current

Parameter	Symbol	Condition	Limit			Unit
Farameter			min	typ	max	Unit
Operating cumply current	IDD1	fosc = 8 MHz, VDD = 5 V			25	mA
Operating supply current	IDD2	fx = 32  kHz, VDD = 3  V			120	μА
Supply current at HALT	IDD3	fx = 32  kHz, VDD = 3  V			10	μА
Supply current at STOP	IDD4	VDD = 3 V			10	μА

### Pin Assignment



QFP100-P-1818B \*Lead-free

## **Support Tool**

In-circuit Emulator	PX-ICE101C / D + PX-PRB101C35-QF	PX-ICE101C / D + PX-PRB101C35-QFP100-P-1818B		
EPROM Built-in Type	Туре	MN101CP35D		
	ROM (× 8-bit)	64 K		
	RAM (× 8-bit)	2 K		
	Minimum instruction execution time	0.25 μs (at 2.7 V to 5.5 V, 8 MHz)		
		125 µs (at 2.7 V to 5.5 V, 32 kHz)		
	Package	QFP100-P-1818B *Lead-free		

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