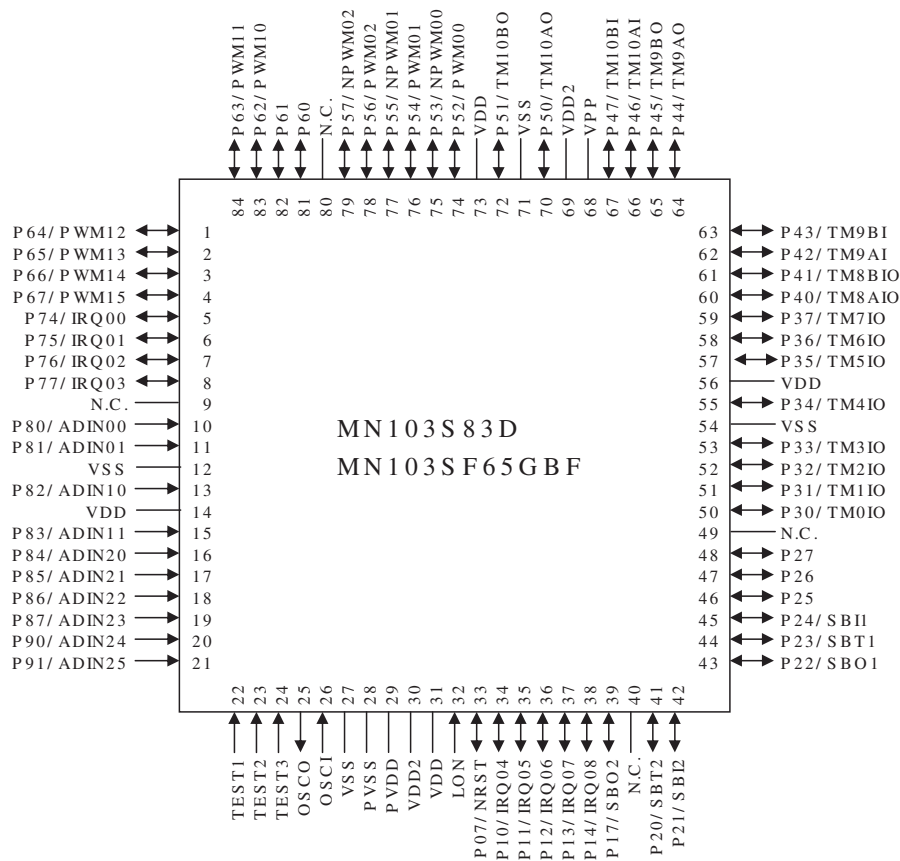


□ MN103S83D

Type	MN103S83D (under development)		
Internal ROM	64 K-byte		
Internal RAM	2 K-byte SRAM		
Package	QFP084-P-1818E *Lead-free		
Minimum Instruction Execution Time	25 ns (at 4.3 V to 5.5 V, 10 MHz internal regulator used) 25 ns (at 3.0 V to 3.6 V, 10 MHz) *at internal 4 times oscillation used)		
Interrupts	<ul style="list-style-type: none"> • 9 external interrupts • 40 internal interrupts (watch dog timer, timer, serial I/F, PWM, A/D, system error) 		
Timer Counter	<p>Eight 8-bit timers Interval timer, Event counter, Cascading</p> <p>Four 16-bit timers Interval timer, Event counter, PWM output, Double buffer Watch dog timer</p>		
Serial Interface	Two UART (full duplex) / synchronous interfaces selective		
I/O Pins	I/O	50	exclusive: 5, selective: 45
	Input	10	selective: 10
A/D Inputs	10-bits, 2 inputs: 2, 6 inputs: 1 Minimum conversion time 1.5us		
PWM	3-phase PWM output 16-bit counter, triangular waveform or jigsaw waveform dead time setup, Double buffer		

Pin Assignment



QFP084-P-1818E *Lead-free

QFP084-P-1818I *Lead-free

Support Tool

In-circuit Emulator	PX-ICE-103S52	
On board Debugger	PX-ODB103S-DO	
Flash Memory Built-in Type	Type	MN103SF65GBF (under development)
	ROM	128 K-byte
	RAM	4 K-byte SRAM
	Minimum instruction execution time	25 ns (at 4.3 V to 5.5 V, 10 MHz internal regulator used) 25 ns (at 3.0 V to 3.6 V, 10 MHz)
	Package	QFP084-P-1818I *Lead-free

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