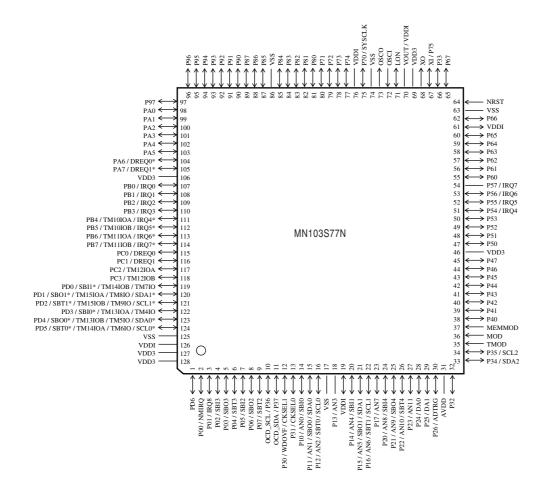
□ MN103S77N

Туре	MN103S77N (under development) 512 K-byte 32 K-byte					
Command ROM (×64-bit)						
Data RAM (x32-bit)						
Package		LQFP128-P-1818C *Lead-free				
Minimum Instruction Execution Time	16.7 ns (at 2.7 V to 3.6 V, 60 MHz)					
Interrupts	• RESET • IRQ × 9 • NMI • Timer × 28 • SIF × 10 • I ² C × 3 • Time base timer × 1 • DMA × 12 • WDT • A/D • System error					
Timer Counter	C: 16-bit tin U In P	eload-down count ascade connection possible (usable as a 16-bit to 32-bit timer)				
	Time bas	e timer × 1				
	Watchdog	g timer × 1				
DMA Controller	Unit of tr Max. Tra Staring fa Transfer Adressing	of channels: 4 ansfer: 8/16/32 bits nsfer cycles: 65535 actor: external interrupt, timer factor, serial transmission/reception fac factor, external transmission request factor, A/D conversion finis method: 2-bus cycle transfer g modes: fixed, increment, decrement modes: word transfer, burst transfer, intermittent transfer			on/recept:	ion
Serial Interface		nchronous/multi-master I ² C interface selective: 3 nchronous interface selective: 2				
I/O Pins I/O	104 • Common use					
A/D Inputs	10-bit × 12-ch.					
D/A Outputs	8-bit × 4-	ch.				
ROM Collection	8-ch.					
Electrical Characteristics						
A/D conversion performance						
· ·			Limit			
Parameter	Symbol	Condition	min	typ	max	Unit

D						
Parameter	Symbol	Condition	min	typ	max	Unit
Resolution					10	Bits
Non-linear error		AVDD = 3.3 V			± 4	LSB
Differential non-linearity error		VSS = 0 V			± 4	LSB

Pin Assignment





Support Tool

In-circuit Emulator	PX-ICE103S77				
On-board Development Tools	PX-ODB103-DO				
Flash Memory Built-in Type	Туре	MN103SF77R (under development)			
	Command ROM (× 64-bit)	1024 K-byte 32 K-byte			
	Data RAM (× 32-bit)				
	Minimum instruction execution time	16.7 ns (at 2.7 V to 3.6 V, 60 MHz)			
	Package	LQFP128-P-1818C *Lead-free			

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