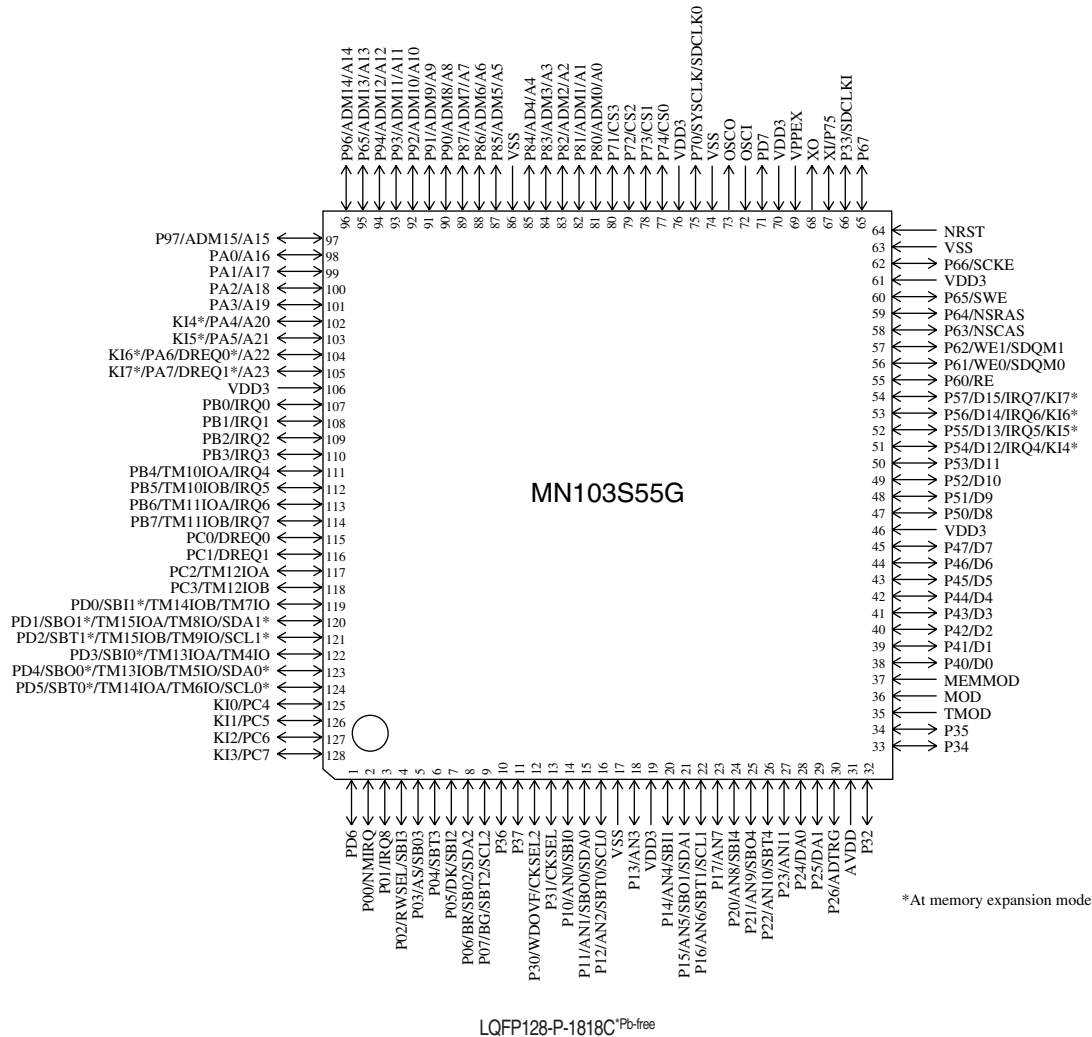


# □ MN103S55G

<b>Type</b>	MN103S55G (under development)		
<b>Command ROM (×64-bit)</b>	128 K-byte		
<b>Data RAM (×32-bit)</b>	16 K-byte		
<b>Package</b>	LQFP128-P-1818C *Pb-free		
<b>Minimum Instruction Execution Time</b>	25.0 ns (at 2.7 V to 3.6 V, 40 MHz)		
<b>Interrupts</b>	<ul style="list-style-type: none"> <li>• RESET • IRQ × 9 • NMI • Timer × 30 • SIF × 10 • I<sup>2</sup>C × 3 • KEY</li> <li>• DMA × 12 • WDT • A/D • System error</li> </ul>		
<b>Timer Counter</b>	<p>8-bit timer × 10</p> <ul style="list-style-type: none"> <li>Reload-down count</li> <li>Cascade connection possible (usable as a 16-bit to 32-bit timer)</li> </ul> <p>16-bit timer × 6</p> <ul style="list-style-type: none"> <li>Up-down count</li> <li>Input capture function</li> <li>PWM generating function</li> <li>Compare/capture register 2-ch.</li> </ul> <p>Time base timer × 1, Free run counter</p> <p>Watchdog timer × 1</p>		
<b>DMA Controller</b>	<p>Number of channels: 4</p> <p>Unit of transfer: 8/16/32 bits</p> <p>Max. Transfer cycles: 65535</p> <p>Starting factor: external interrupt, timer factor, serial transmission/reception factor, I<sup>2</sup>C transmission/reception factor, external transmission request factor, A/D conversion finish, software factor</p> <p>Transfer method: 2-bus cycle transfer</p> <p>Addressing modes: fixed, increment, decrement</p> <p>Transfer modes: word transfer, burst transfer, intermittent transfer</p>		
<b>Serial Interface</b>	<p>UART/synchronous/multi-master I<sup>2</sup>C interface selective: 3</p> <p>UART/synchronous interface selective: 2</p>		
<b>I/O Pins</b>	<b>I/O</b>	109	• Common use
<b>A/D Inputs</b>	10-bit × 12-ch.		
<b>D/A Inputs</b>	8-bit × 2-ch.		
<b>Electrical Characteristics</b>	T.B.D.		

Pin Assignment



LQFP128-P-1818C\*Pb-free

SupportTool

In-circuit Emulator	PX-ICE103S55	
On-board Development Tools	PX-ODB103S-O	
Flash Memory Built-in Type	Type	MN103SF55G (under development)
	Command ROM (× 64-bit)	128 K-byte
	Data RAM (× 32-bit)	16 K-byte
	Minimum instruction execution time	25.0 ns (at 2.7 V to 3.6 V, 40 MHz)
	Package	LQFP128-P-1818C *Pb-free

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