

MN102L62G

Type	MN102L62G (under development)	
ROM (×8-Bit / ×16-Bit)	128 K	
RAM (×8-Bit / ×16-Bit)	5 K	
Minimum Instruction Execution Time	148 ns (at 3.0 V to 3.6 V 13.5 MHz)	
Interrupts	<ul style="list-style-type: none"> • RESET • Watchdog • Timer Counter 0 to 5 • Timer Counter 6 to 7 • Timer Counter 6 to 7 Compare Capture A • Timer Counter 6 to 7 Compare Capture B • ATC Transfer finish • External 0 to 4 • Serial ch 0, 1 Transmission • Serial ch 0, 1 Reception • NMI Pin • A/D Conversion finish 	
Timer Counter	<p>Timer Counter 0 : 8-Bit × 1 (Timer Output, Event Count) Clock Source 1/1, 1/128 of System Clock, 1/4 of Low Speed Clock, External Clock Interrupt Source Underflow of Timer Counter 0</p> <p>Timer Counter 1 : 8-Bit × 1 (Timer Output, Event Count, A/D Conversion Start up) Clock Source System Clock, 1/4 of Low Speed Clock, External Clock, Timer Counter 0 Output Interrupt Source Underflow of Timer Counter 1</p> <p>Timer Counter 2 to 3 : 8-Bit × 1 (Timer Output, Event Count, UART Baud Rate Generator) Clock Source System Clock, External Clock, Timer Counter 0 Output, Timer Counter 1, 2 Output Interrupt Source Underflow of Timer Counter 2, 3</p> <p>Timer Counter 4, 5 : 8-Bit × 1 (Timer Output, Event Count) Clock Source 1/4 of Low Speed Clock, External Clock, Timer Counter 0 Output, Timer Counter 3, 4 Output Interrupt Source Underflow of Timer Counter 4, 5</p> <p>Timer Counter 6, 7 : 16-Bit × 1 (Timer Output, Event Count, Input Capture, Output Compare, PWM Output, 2-Phase Encoder Input) Clock Source System Clock, External Clock, Timer Counter 4, 5 Output Interrupt Source Coincidence with Compare Capture A or at Capture, Coincidence with Compare Capture B or at Capture, Underflow of Timer Counter 6, 7</p> <p style="text-align: center;">(Connectable) Timer Counter 0 to 5</p>	
Serial Interface	<p>Serial 0 : 7, 8-Bit × 1 (Common use with UART, Transfer direction of MSB/LSB selectable) Clock Source 1/16 of Timer Counter 2, 1/16 of Timer Counter 3, External Clock, 1/2 of Timer Counter 2</p> <p>Serial 1 : 7, 8-Bit × 1 (Common use with UART, Transfer direction of MSB/LSB selectable) Clock Source 1/16 of Timer Counter 2, 1/16 of Timer Counter 3, External Clock, 1/2 of Timer Counter 3</p> <p>UART × 2 (Common use with Serial 0, 1)</p> <p>I²C × 2 (Single master)</p>	
I/O Pins	I/O	80 • Common use 16 (by 8-Bit), 8 (by 4-Bit), 56 (by-bit)
A/D Inputs	8-Bit × 8ch (with S/H)	
PWM	16-Bit × 2ch	

Notes	Burst ROM interface support, ATC (between serial 0ch and internal RAM) support
Package	LQFP100-P-1414
Electrical Characteristics	

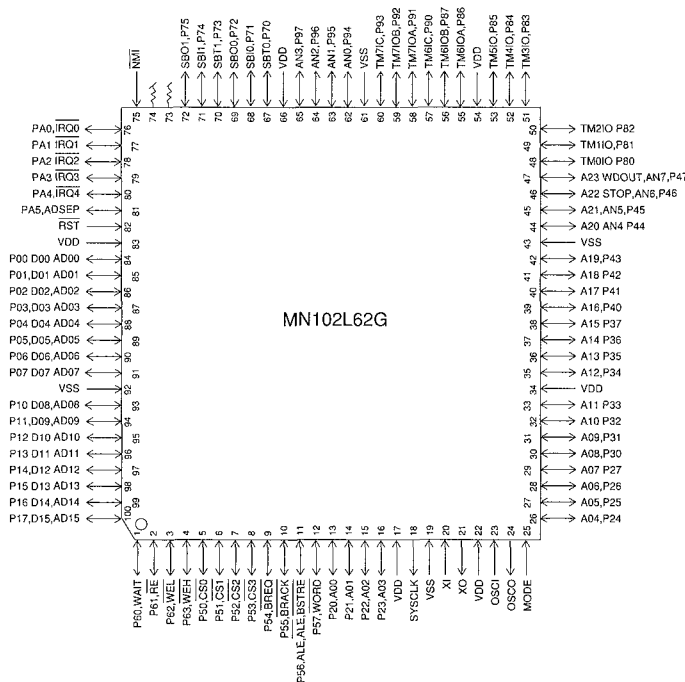
A/D Characteristics

Parameter	Symbol	Condition	Limit			
			min	typ	max	Unit
A/D Conversion Relative Error		VDD = 3.3 V, VSS = 0 V	ch0 to 3		±3	LSB
			ch4 to 7		+4	LSB
A/D Conversion Time			7.11			µs
Analog Input Voltage	VIA		VSS		VDD	V

(Ta = 25 °C, VDD = 3.3 V, VSS = 0 V)

Support Tool

In-Circuit Emulator	PX-ICE102L00 + PX-PRB102L25
Pin Assignment	



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