

MN152811

Type		MN152811	
ROM (x8-bit)		8K	
RAM (x4-bit)		256	
Number of Instructions		115	
Minimum Instruction Execution Time		2µs (at 4.5 to 5.5V, 6MHz)	
Interrupts		• RESET • SIRQ • Remote Control Input • Timer • Serial (Only when choosing Mask Option)	
Timer Counter		Timer Counter : 8-bit x 1 (Timer Output, Event Count) Clock Source1/2, 1/8, 1/32, 1/128 of System Clock Interrupt SourceOverflow of Timer Counter	
Serial Interface		Serial : 8-bit x 1 Clock SourceSystem Clock, SBT Pin Input	
I/O Pins	I/O	5	• Common use : 2 • Specified pull-up Resistor available (Mask Option) : 2 • Nch Open-drain available (Output) : 5
	Input	4	• Common use : 1 • Specified pull-up Resistor available (Mask Option) : 1 • Output selectable (Software Programmable) : 3
	High Voltage Output	5	• Nch Open-drain (Breakdown Voltage 12V) : 5 • Push-pull Output selectable (Mask Option) : 4
	Output	3	
A/D Inputs		5-bit x 4ch (Conversion by Software)	
PWM		7-bit x 6ch (Repetition Cycle 256µs, at 6MHz), 14-bit x 1ch (Repetition Cycle 32.8ms, at 6MHz)	
Special Ports		Tri-state Output (PTO), Remote Control Reception	
CRTC		5 x 7 dots, 16 characters, 2 lines, 7 colors, 56 patterns, Rounding function, Framing function	
Notes		Remote Control Data Detection Circuit built-in, For Voltage Synthesizer	
Package		SDIP042-P-0600	

Electrical Characteristics

Supply Current

Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
Operating Supply Current	IDD1	fosc=6MHz, VDD=5V Ta=25°C		5.0	10	mA
Supply Current at STOP	IDD3	fosc=0Hz, VDD=5V Ta=25°C			2.0	μA

(VDD=5.0V, VSS=0V)

A/D, D/A Converter Characteristics

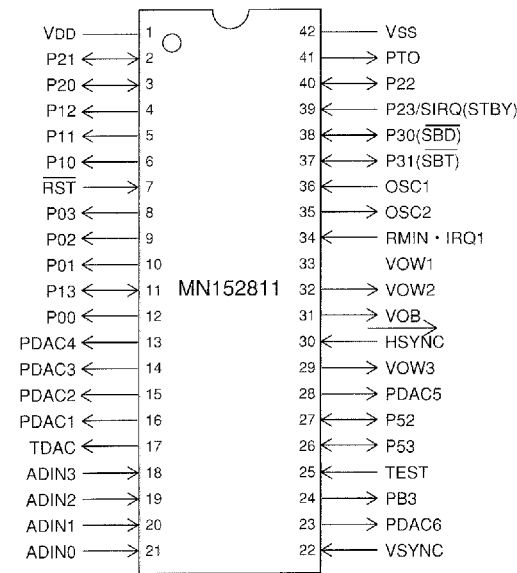
Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
A/D Conversion Absolute Error		VDD=5V, VSS=0V			±1	LSB
Analog Input Voltage			VSS		VDD	

(VDD=5.0V, VSS=0V, Ta=25, 80°C)

Support Tool

In-Circuit Emulator	PX-ICE1500 + PX-PRB152811
Piggyback	Use EP152811.

Pin Assignment



SDIP042-P-0600