

# MN1871681

<b>Type</b>		<b>MN1871681</b>	
<b>ROM (×8-Bit)</b>		16 K	
<b>RAM (×8-Bit)</b>		320	
<b>Minimum Instruction Execution Time</b>		0.5 μs at 2/3 frequency dividing (at 4.5 V to 5.5 V, 12 MHz)	
<b>Interrupts</b>		<ul style="list-style-type: none"> <li>• RESET • External 0 • External 1 • Timer 0 • Timer 1 • Timer 2 • I<sup>2</sup>C • Remote Control</li> <li>• MOSD</li> </ul>	
<b>Timer Counter</b>		<p><b>Timer Counter 0 : 8-Bit × 1</b></p> <p>Clock Source . 1/1, 1/4, 1/16, 1/64 of System Clock</p> <p>Interrupt Source Overflow of Timer Counter 0</p> <p><b>Timer Counter 1 : 8-Bit × 1</b></p> <p>Clock Source .. 1/2, 1/16, 1/64, 1/256, 1/512 of System Clock</p> <p>Interrupt Source Overflow of Timer Counter 1</p> <p><b>Time Base Counter</b></p> <p>Clock Source 1/4096 of System Clock</p> <p>Interrupt Source 1/1, 1/2, 1/4, 1/8 of Timer Counter 2</p> <p><b>Watchdog Timer</b></p>	
<b>Serial Interface</b>		I <sup>2</sup> C × 1 (Two bus line system)	
<b>I/O Pins</b>	<b>I/O</b>	<b>20</b>	• Common use 12 • General use 8
	<b>Input</b>	<b>1</b>	• Common use 1
<b>A/D Inputs</b>		5-Bit × 10ch (without S/H)	
<b>PWM</b>		14-Bit × 1ch, 8-Bit × 5ch (All PWM are 5 V, not connectable to 12 V systems)	
<b>Special Ports</b>		Hsync detection, Remote Control Reception	
<b>CRTC</b>		Single OSD built-in (Menu OSD 12 × 18 dots 256 letters)	
<b>Notes</b>		Remote Control Data Detection Circuit built-in	
<b>Package</b>		SDIP042-P-0600	

## Electrical Characteristics

### A/D Converter Characteristics

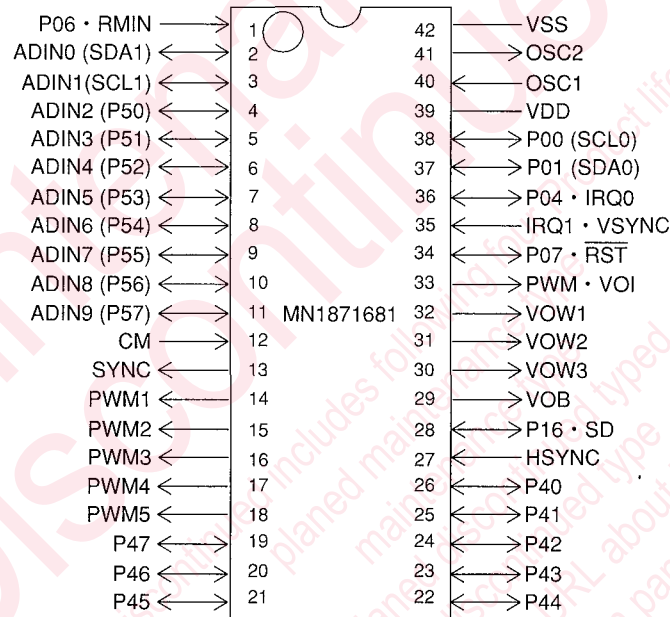
Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
A/D Conversion Time	TAD	fosc = 12 MHz	9			μs
Analog Input Voltage	VAD		VSS		VDD	V

(Ta = -20 °C to +70 °C, VDD = 5.0 V, VSS = 0 V)

## Support Tool

<b>In-Circuit Emulator</b>	PX-ICE1870 / 80+PX-PRB1876476	
<b>EPROM built-in Type</b>	Type	MN18P73284
	ROM (× 8-Bit)	32 K
	RAM (× 8-Bit)	640
	Minimum Instruction Execution Time	0.5 μs (at 4.5 V to 5.5 V, 12 MHz)
	Package	SDIP042-P-0600

## Pin Assignment



SDIP042-P-0600

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