

MN1874878

Type	MN1874878		
ROM (x8-bit)	48K		
RAM (x8-bit)	928		
Minimum Instruction Execution Time	0.5µs at 2/3 frequency dividing (at 4.5 to 5.5V, 12MHz)		
Interrupts	• RESET • External 0 • External 1 • External 2 • External 3 • Timer 0 • Timer 1 • Timer 2 • I ² C • Serial • Remote Control • Line 21 • MOSD • COSD		
Timer Counter	Timer Counter 0 : 8-bit x 1 Clock Source 1/1, 1/4, 1/16, 1/64 of System Clock Interrupt Source Overflow of Timer Counter 0 Timer Counter 1 : 8-bit x 1 Clock Source 1/2, 1/16, 1/64, 1/256, 1/512 of System Clock Interrupt Source Overflow of Timer Counter 1 Time Base Counter Clock Source 1/4096 of System Clock Interrupt Source 1/1, 1/2, 1/4, 1/8 of Timer Counter 2 Watchdog Counter for Clock (Clock function) AC Counter		
Serial Interface	Serial 0 : 8-bit x 1 (Transmission / Reception of variable length, Transfer direction of MSB/LSB selectable, Colck Polarity selectable, Start Condition function) Clock Source System Clock I²C x 1 (Two bus line system)		
I/O Pins	I/O	36	• Common use 29
	Input	3	• Common use : 3
	High Voltage Output	7	• Nch Open-drain (Breakdown Voltage 12V) 7
A/D Inputs	5/7-bit x 10ch (without S/H)		
PWM	14-bit x 1ch (Repetition Cycle 16µs, at 12MHz), 8-bit x 8ch (Repetition Cycle 32µs, at 12MHz), 7-bit x 1ch (Repetition Cycle 16µs, at 12MHz) (PWM are 5V , not connectable to 12V systems)		
Special Ports	Hsync Detection, Remote Control Reception		
CRTC	Double OSD built-in (Menu OSD 12 x 18, 256 letters, Caption OSD 12 x 26, 176 letters)		
Notes	Remote Control Data Detection Circuit built-in, On-chip synchronous separator for caption decoder		
Package	SDIP064-P-0750		

Electrical Characteristics

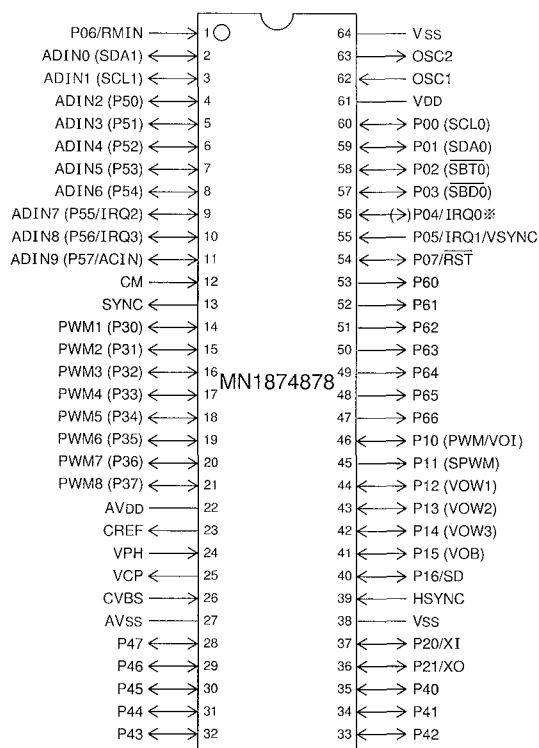
A/D Converter Characteristics

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

(Ta= -20 to +70°C, VDD=5.0V, VSS=0V)

Support Tool

In-Circuit Emulator		PX-ICE1870 / 80 + PX-PRB1876462, PX-PRB1876476, PX-PRB1879682
EPROM built-in Type	Type	MN18P79682
	ROM (x 8-bit)	96K
	RAM (x 8-bit)	1248
	Minimum Instruction Execution Time	0.5μs / 0.333μs (at 4.5 to 5.5V, 12MHz) Selectable
	Package	SDIP064-P-0750
Pin Assignment		



SDIP064-P-0750

※P04 • IRQ0 pin

TYPE A	Stand-by function is available	Input pin
TYPE B	Stand-by function is not available	I/O pin