

MN1874878

Type

MN1874878

ROM (x8-bit)

48K

RAM (x8-bit)

928

Minimum Instruction Execution Time

2/3 dividing 0.5µs (at 4.5 to 5.5V, 12MHz)

Interrupts

• RESET • External 0 • External 1 • External 2 • External 3 • Timer 0 • Timer 1 • Timer 2

• I²C • Serial • Remote Control • Line 21 • MOSD • COSD

Timer Counter

Timer Counter 0 : 8-bit x 1

Clock Source1/1, 1/4, 1/16, 1/64 of System Clock

Interrupt SourceOverflow of Timer Counter 0

Timer Counter 1 : 8-bit x 1

Clock Source1/2, 1/16, 1/64, 1/256, 1/512 of System Clock

Interrupt SourceOverflow of Timer Counter 1

Time Base Counter

Clock Source1/4096 of System Clock

Interrupt Source1/1, 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 SourceSystem 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)

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

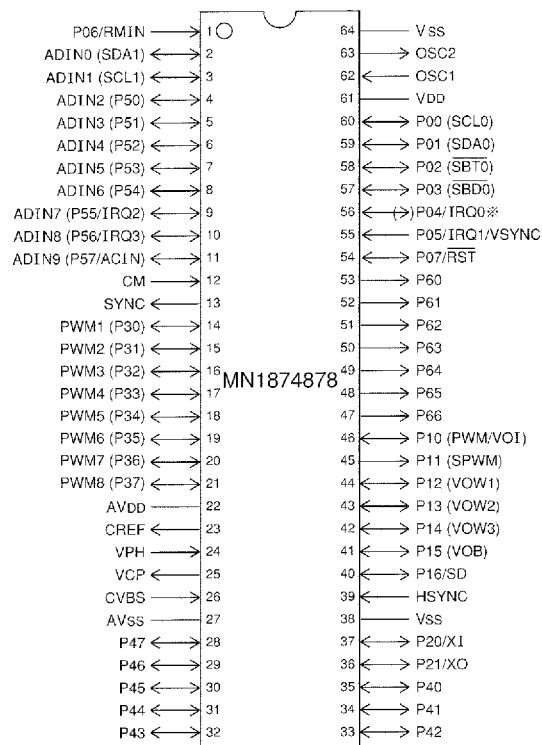
Parameter	Symbol	Condition	Limit			Unit
			min	typ	max	
A/D Conversion Time	TAD	fosc=12MHz	9/12			µs
Analog Input Voltage	VAD		VSS		VDD	V

(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	Use MN18P79682 in SDIP064-P-0750 package. (PWM are 5V ; not connectable to 12V systems)

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