□ MN1874088

Туре			MN1874088			
ROM (×8	-Bit)		40 K			
RAM (×8	-Bit)		640			
Minimum	Instruction Execut	tion Time	0.5 μs at 2/3 frequency dividing (at 4.5 V to 5.5 V, 12 MHz)			
Interrupt	S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• RESET • External 0 • External 1 • Timer 0 • Timer 1 • Timer 2 • Remote Control • Line 21 • COSD			
■ Timer Counter			Timer Counter 0 : 8-Bit × 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 × 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 Watchdag			
I/O Pins			W 8 (G (I U U U			
I/O Pins	1/0	21	• Common use 3			
I/O Pins	I/O Input	21				
I/O Pins			• Common use 3			
I/O Pins A/D Inpu	Input Output	1	Common use 3 Common use 1			
A/D Input	Input Output	1	• Common use 3 • Common use 1 • Nch Open-Drain 7			
A/D Input	Input Output ts	1	• Common use 3 • Common use 1 • Nch Open-Drain 7 5-Bit \times 7ch (without S/H) 14-Bit \times 1ch (Repetition Cycle 16 μ s, at 12 MHz), 8-Bit \times 8ch (Repetition Cycle 32 μ s, at 12 MHz), 7-Bit \times 1ch (Repetition Cycle 16 μ s, at 12 MHz)			
A/D Input PWM Special F	Input Output ts	1	• Common use 3 • Common use 1 • Nch Open-Drain 7 5-Bit \times 7ch (without S/H) 14-Bit \times 1ch (Repetition Cycle 16 μ s, at 12 MHz), 8-Bit \times 8ch (Repetition Cycle 32 μ s, at 12 MHz), 7-Bit \times 1ch (Repetition Cycle 16 μ s, at 12 MHz) (All PWM are 5 V , not connectable to 12 V systems)			
	Input Output ts	1	• Common use 3 • Common use 1 • Nch Open-Drain 7 5-Bit × 7ch (without S/H) 14-Bit × 1ch (Repetition Cycle 16 µs, at 12 MHz), 8-Bit × 8ch (Repetition Cycle 32 µs, at 12 MHz), 7-Bit × 1ch (Repetition Cycle 16 µs, at 12 MHz) (All PWM are 5 V , not connectable to 12 V systems) Remote Control Reception			

A/D Converter Characteristics

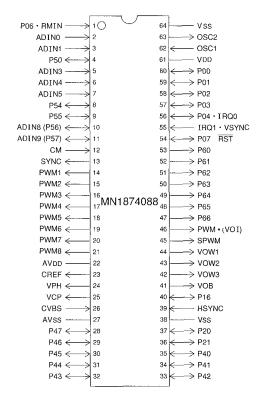
Parameter	Symbol	Condition	min	Limit typ	max	Uait
A/D Conversion Time	ſΑD	fosc = 12 MHz	9			μS
Analog Input Voltage	VAD		VSS		VDD	V

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

Support Tool

In-Circuit Emulator	PX-ICE1870 / 80 + PX-PF	B1879682 (under development)	
EPROM built-in Type	Туре	MN18P79682	
	ROM (× 8-Bit)	96 K	
	RAM (× 8-Bit)	1 248	
	Minimum Instruction Execution Time	0 333 μs (at 4 5 V to 5 5 V, 12 MHz)	
	Package	SDIP064-P-0750	

Pin Assignment



SDIP064-P-0750

Request for your special attention and precautions in using the technical information and semiconductors described in this book

- (1) If any of the products or technical information described in this book is to be exported or provided to non-residents, the laws and regulations of the exporting country, especially, those with regard to security export control, must be observed.
- (2) The technical information described in this book is intended only to show the main characteristics and application circuit examples of the products, and no license is granted under any intellectual property right or other right owned by our company or any other company. Therefore, no responsibility is assumed by our company as to the infringement upon any such right owned by any other company which may arise as a result of the use of technical information described in this book.
- (3) The products described in this book are intended to be used for standard applications or general electronic equipment (such as office equipment, communications equipment, measuring instruments and household appliances).

 Consult our sales staff in advance for information on the following applications:
 - Special applications (such as for airplanes, aerospace, automobiles, traffic control equipment, combustion equipment, life support
 systems and safety devices) in which exceptional quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or harm the human body.
 - Any applications other than the standard applications intended.
- (4) The products and product specifications described in this book are subject to change without notice for modification and/or improvement. At the final stage of your design, purchasing, or use of the products, therefore, ask for the most up-to-date Product Standards in advance to make sure that the latest specifications satisfy your requirements.
- (5) When designing your equipment, comply with the range of absolute maximum rating and the guaranteed operating conditions (operating power supply voltage and operating environment etc.). Especially, please be careful not to exceed the range of absolute maximum rating on the transient state, such as power-on, power-off and mode-switching. Otherwise, we will not be liable for any defect which may arise later in your equipment.
- Even when the products are used within the guaranteed values, take into the consideration of incidence of break down and failure mode, possible to occur to semiconductor products. Measures on the systems such as redundant design, arresting the spread of fire or preventing glitch are recommended in order to prevent physical injury, fire, social damages, for example, by using the products.
- (6) Comply with the instructions for use in order to prevent breakdown and characteristics change due to external factors (ESD, EOS, thermal stress and mechanical stress) at the time of handling, mounting or at customer's process. When using products for which damp-proof packing is required, satisfy the conditions, such as shelf life and the elapsed time since first opening the packages.
- (7) This book may be not reprinted or reproduced whether wholly or partially, without the prior written permission of Matsushita Electric Industrial Co., Ltd.