

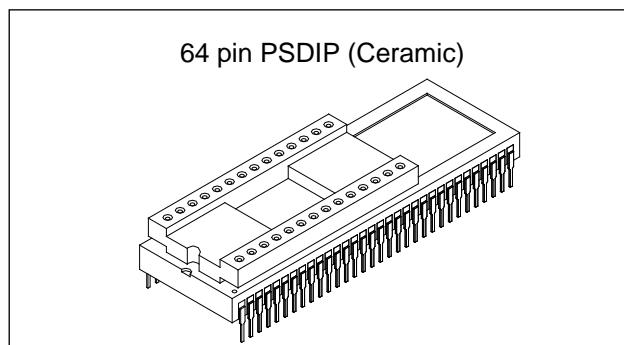
CMOS 8-bit Single Chip Microcomputer

Piggyback/
evaluator type**Description**

The CXP82700 is a CMOS 8-bit single chip microcomputer of piggyback/evaluator combined type, which is developed for evaluating the function of the CXP82712/82716.

Features

- A wide instruction set (213 instructions) which cover various types of data.
 - 16-bit operation/multiplication and division/boolean bit operation instructions
- Minimum instruction cycle
 - 400ns at 10MHz operation
 - 122 μ s at 32kHz operation
- Applicable EPROM
 - LCC type 27C128, LCC type 27C256
(Maximum 16Kbytes are available)
- Incorporated RAM capacity
 - 448 bytes (LCD display data area included)
- Peripheral functions
 - A/D converter
 - 8-bit, 8-channel, successive approximation method
(Conversion time of 32 μ s/10MHz)
 - Serial interface
 - Incorporated 8-bit and 8-stage FIFO
(Auto transfer for 1 to 8 bytes), 1 circuit 2channels
 - Timer
 - 8-bit timer, 8-bit timer/counter,
19-bit time base timer, 32kHz timer/counter
 - Fluorescent display panel controller/driver
 - Maximum 144 segments display possible
 - 1 to 16-digit dynamic display
 - 24 high voltage drive output port
 - Dimmer function
 - High voltage drive output (40V)
 - On-chip pull-down resistor (Mask option)
 - Hardware key scan function
(Maximum 8 \times 8 key matrix compatible.)
 - Remote control receiving circuit
 - 8-bit pulse measurement counter with on-chip 6-stage FIFO
 - PWM output
 - 8bit, 1channel
- Interruption
 - 13 factors, 13 vectors, multi-interruption possible
- Standby mode
 - SLEEP/STOP
- Package
 - 64-pin ceramic PSDIP



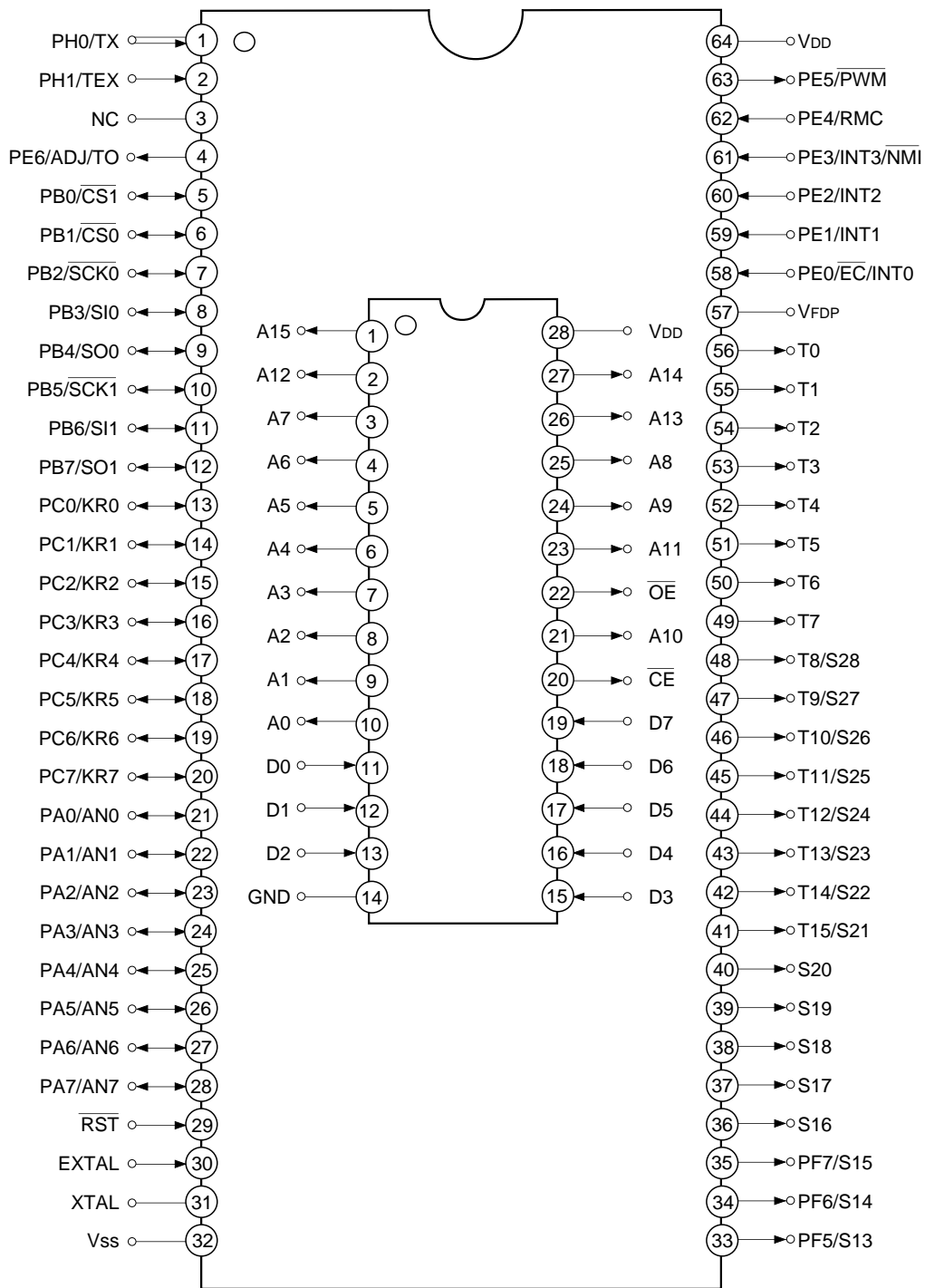
Note) Mask option depends on the type of the CXP82700. Refer to the Products List for details.

Structure

Silicon gate CMOS IC

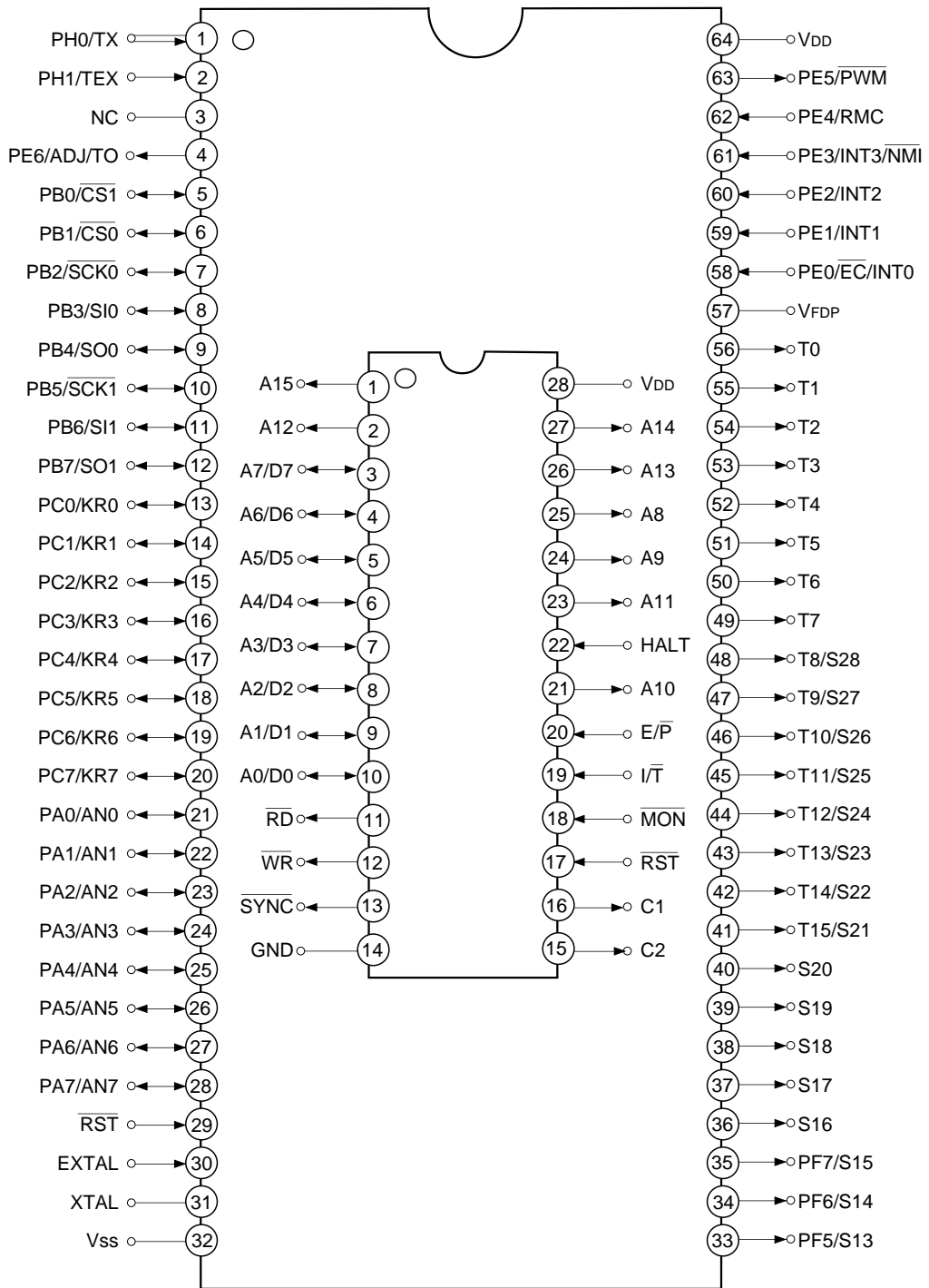
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Pin Assignment in Piggyback Mode



- Note)**
1. NC (Pin 3) is always connected to VDD.
 2. PH0/TX (Pin 1) is input port during port selection; oscillation output during oscillation selection.

Pin Assigment in Evaluator Mode

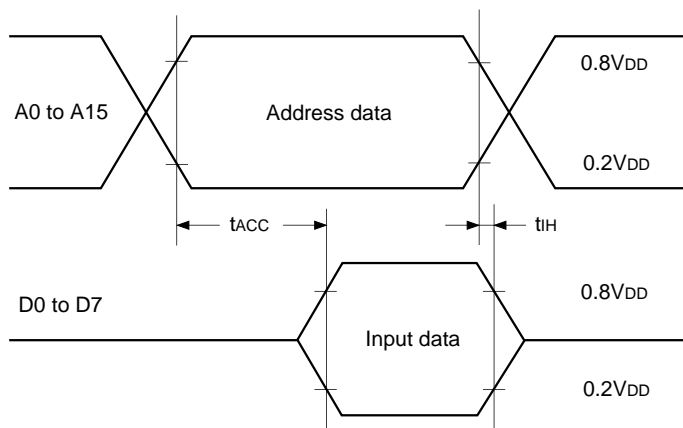


- Note)**
1. NC (Pin 3) is always connected to VDD.
 2. PH0/TX (Pin 1) is input port during port selection; oscillation output during oscillation selection.

EPROM Read Timing

($T_a = -20$ to $+75^\circ\text{C}$, $V_{DD} = 4.5$ to 5.5V , $V_{SS} = 0\text{V}$ reference)

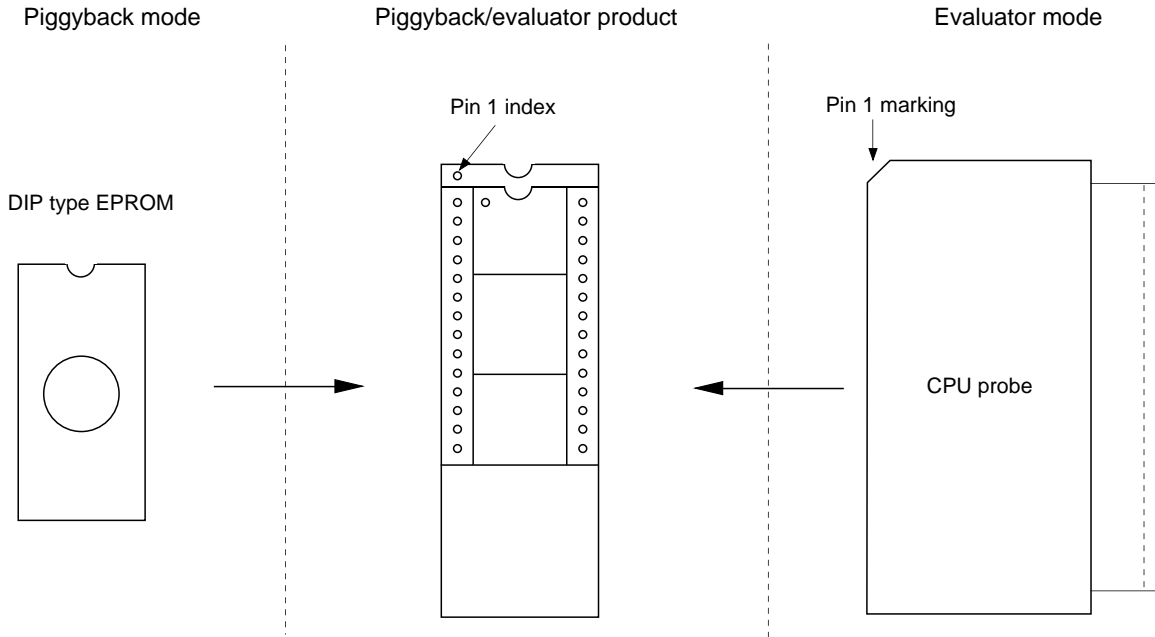
Item	Symbol	Pin	Min.	Max.	Unit
Address → data Input delay time	t_{ACC}	A0 to A15 D0 to D7		120	ns
Address → data Hold time	t_{IH}	A0 to A15 D0 to D7	0		ns



Products List

Option item	Products		
	Mask product		Piggyback/evaluator product
	CXP82712	CXP82716	CXP82700-U01S
Package	80-pin plastic SDIP		64-pin ceramic PSDIP
ROM capacity	12Kbytes	16Kbytes	EPROM 16Kbytes
Pull-up resistor for reset pin	Existent/Non-existent		Existent
Pull-down resistor for high voltage drive pin	Existent/Non-existent		Only port for display

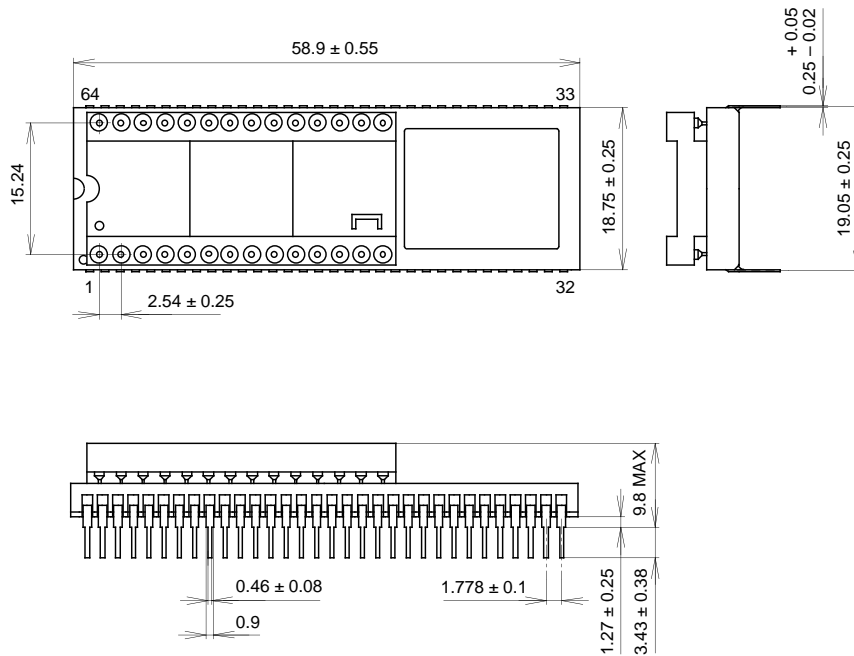
Piggyback mode/evaluator mode can be switched as shown below.



Package Outline

Unit: mm

64PIN PSDIP (CERAMIC) 750mil



PACKAGE STRUCTURE

SONY CODE	PSDIP-64C-01
EIAJ CODE	ADIP064-C-0750-A
JEDEC CODE	_____

PACKAGE MATERIAL	CERAMIC
LEAD TREATMENT	GOLD PLATING
LEAD MATERIAL	42 ALLOY
PACKAGE WEIGHT	16.0g



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