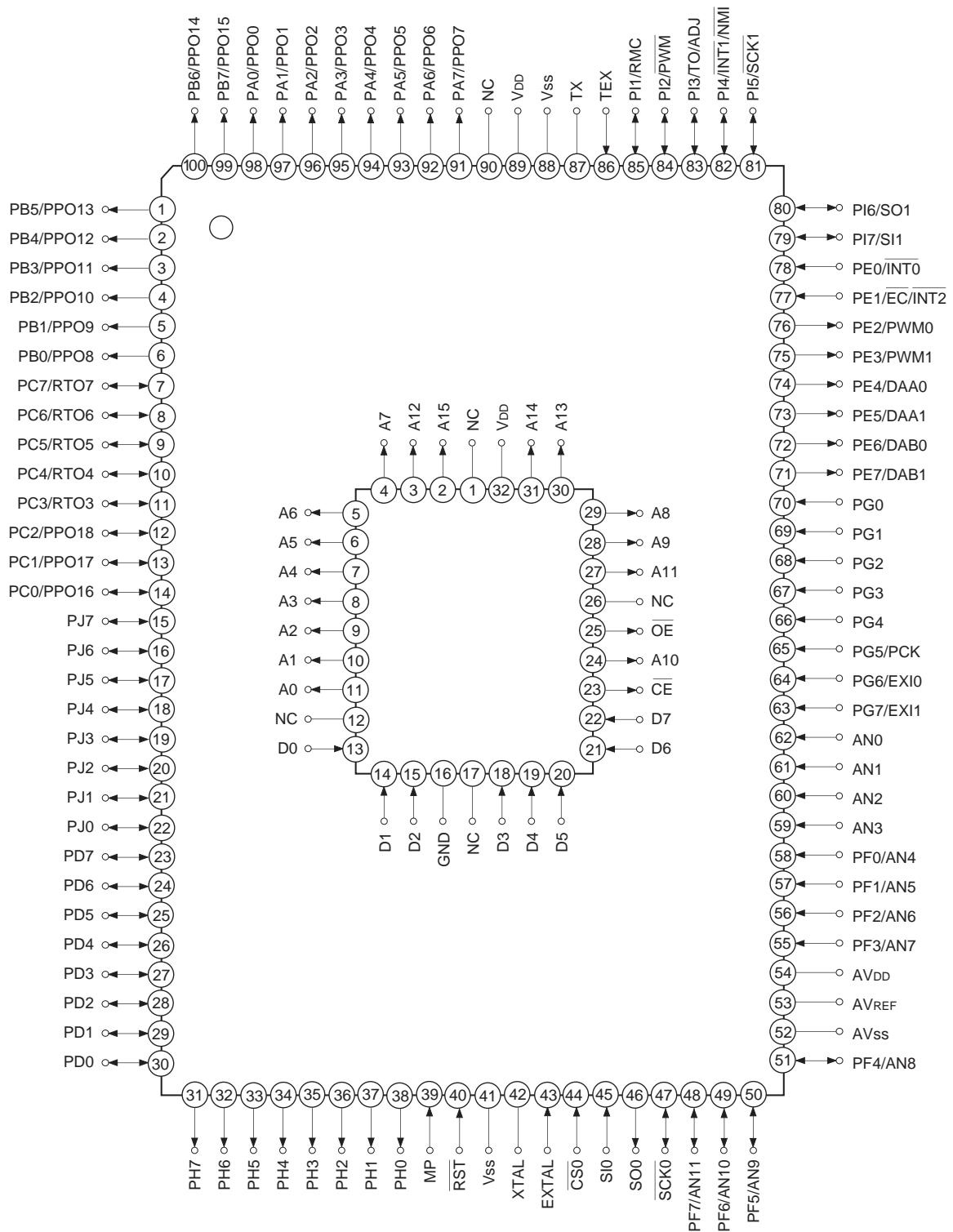
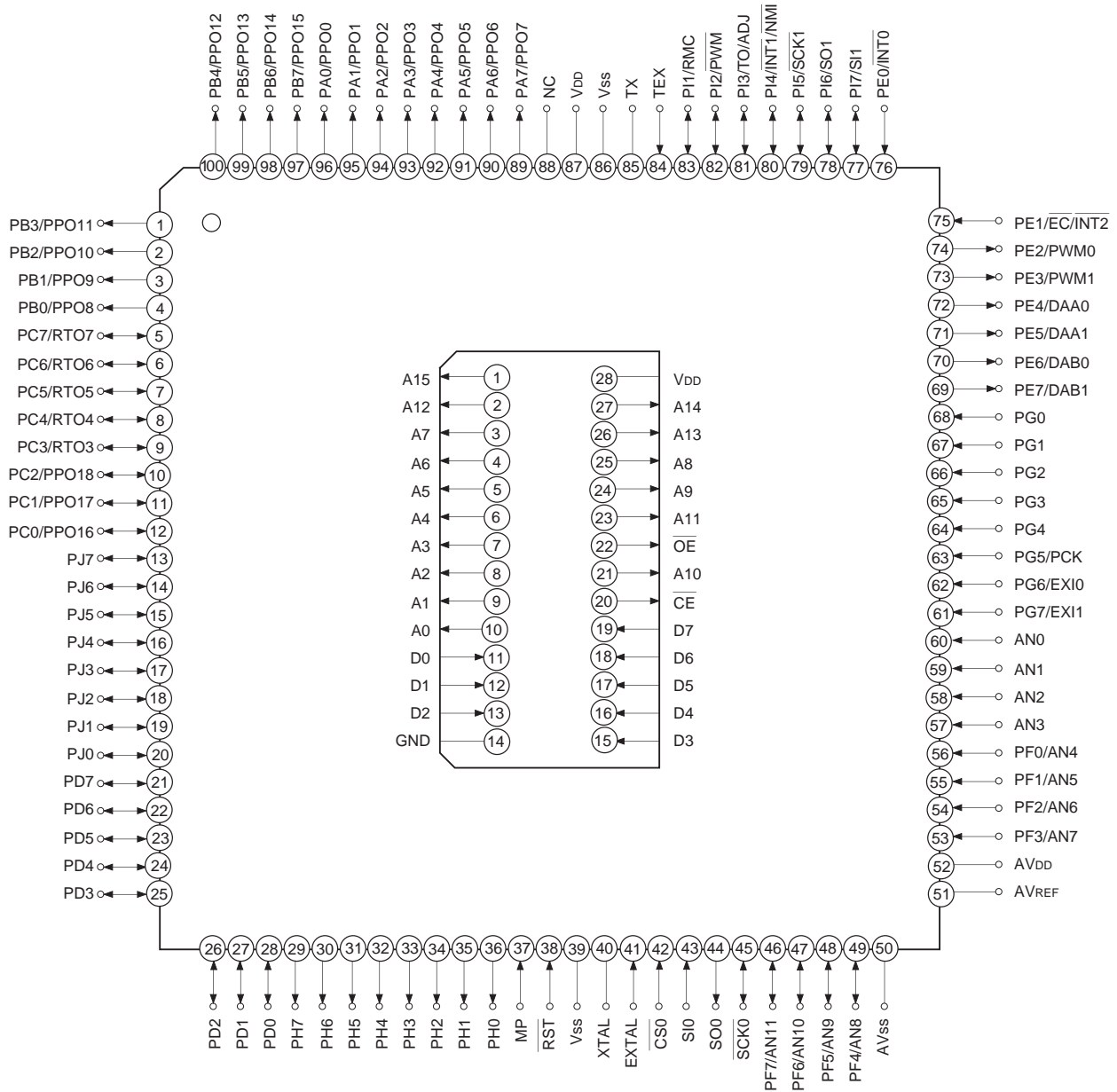


Pin Assignment in Piggyback Mode (QFP package)



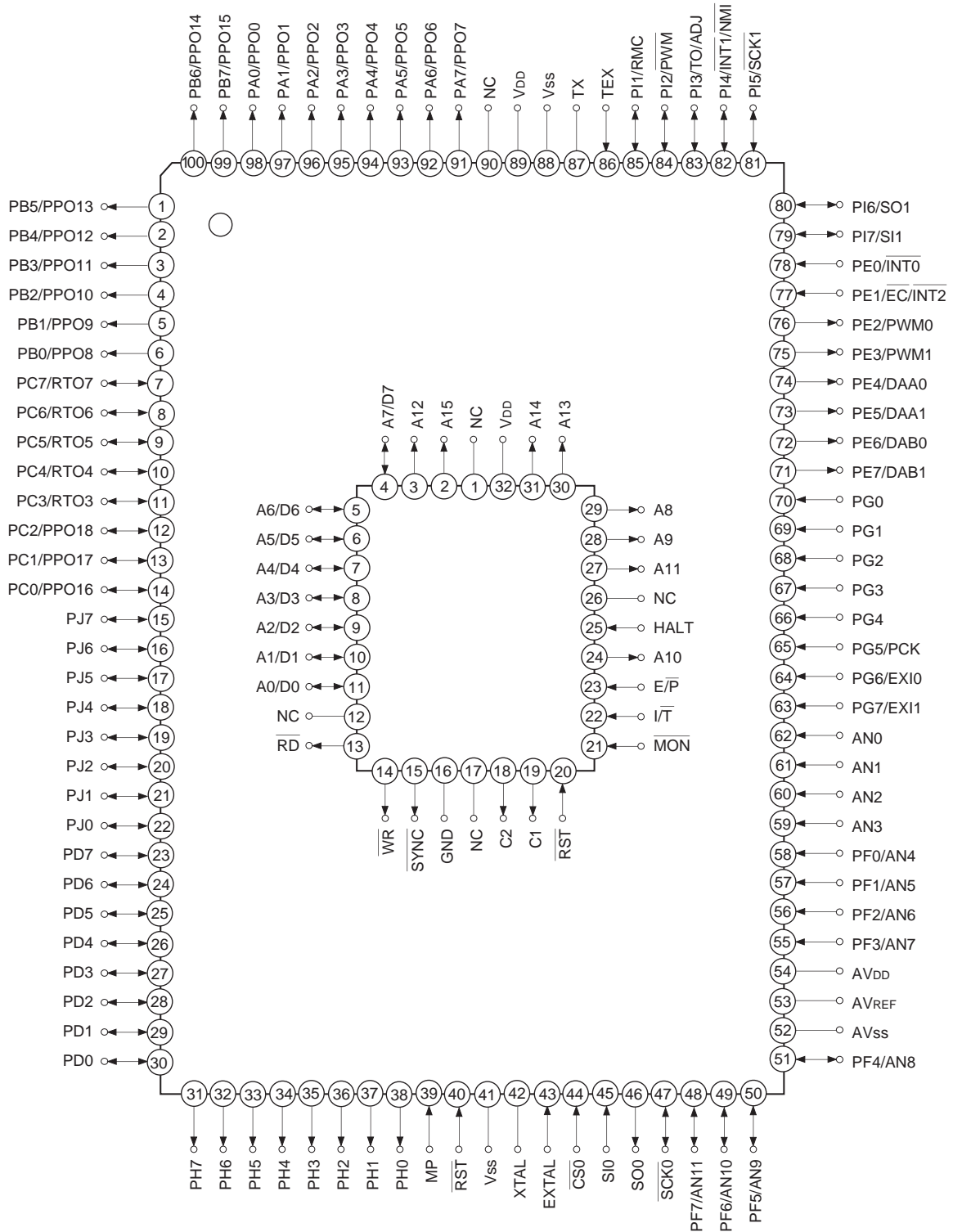
- Note)**
1. NC (Pin 90) is always connected to VDD.
 2. Vss (Pins 41 and 88) are both connected to GND.
 3. MP (Pin 39) is always connected to GND.

Pin Assignment in Piggyback Mode (LQFP package)



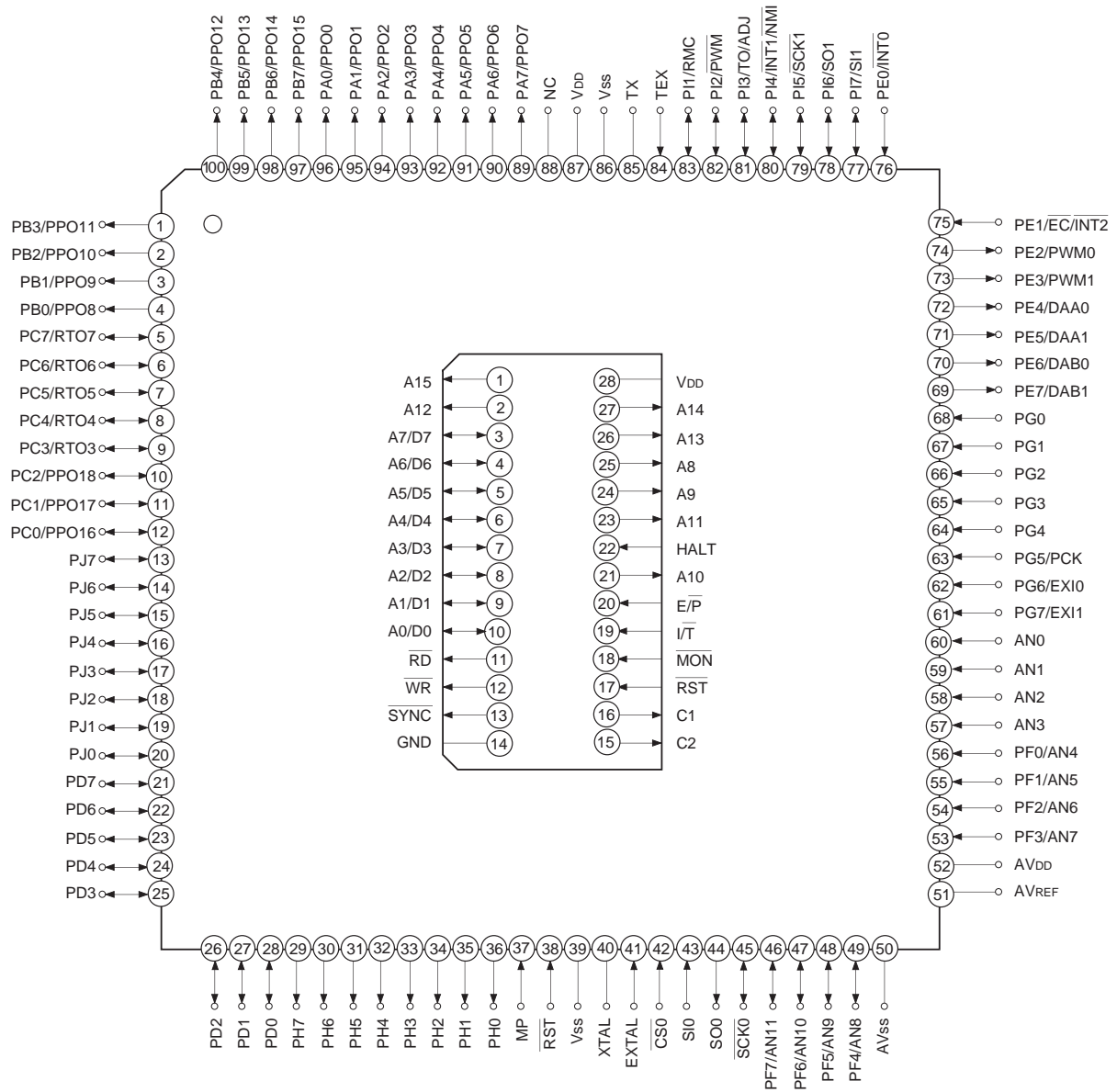
- Note)** 1. NC (Pin 88) is always connected to V_{DD}.
 2. V_{SS} (Pins 39 and 86) are both connected to GND.
 3. MP (Pin 37) is always connected to GND.

Pin Assignment in Evaluator Mode (QFP package)



- Note)**
1. NC (Pin 90) is always connected to V_{DD}.
 2. V_{SS} (Pins 41 and 88) are both connected to GND.
 3. MP (Pin 39) is always connected to GND.

Pin Assignment in Evaluator Mode (LQFP package)



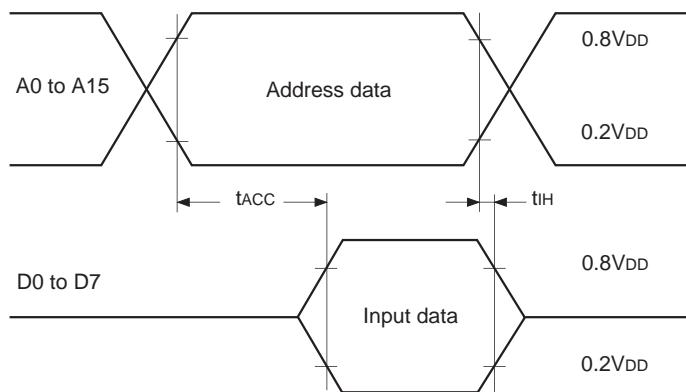
- Note**
1. NC (Pin 88) is always connected to V_{DD}.
 2. V_{SS} (Pins 39 and 86) are both connected to GND.
 3. MP (Pin 37) is always connected to GND.

EPROM Read Timing ($T_a = -20$ to $+75^\circ\text{C}$, $V_{DD} = 2.7$ to 5.5V , $V_{SS} = 0\text{V}$)

Item	Symbol	Pin	Min.	Max.	Unit
Address → data input delay time	t_{ACC}	A0 to A15 D0 to D7		100*1	ns
				75*2	
Address → data hold time	t_{IH}	A0 to A15 D0 to D7	0		ns

*1 At 12MHz operation ($V_{DD} = 4.5$ to 5.5V)

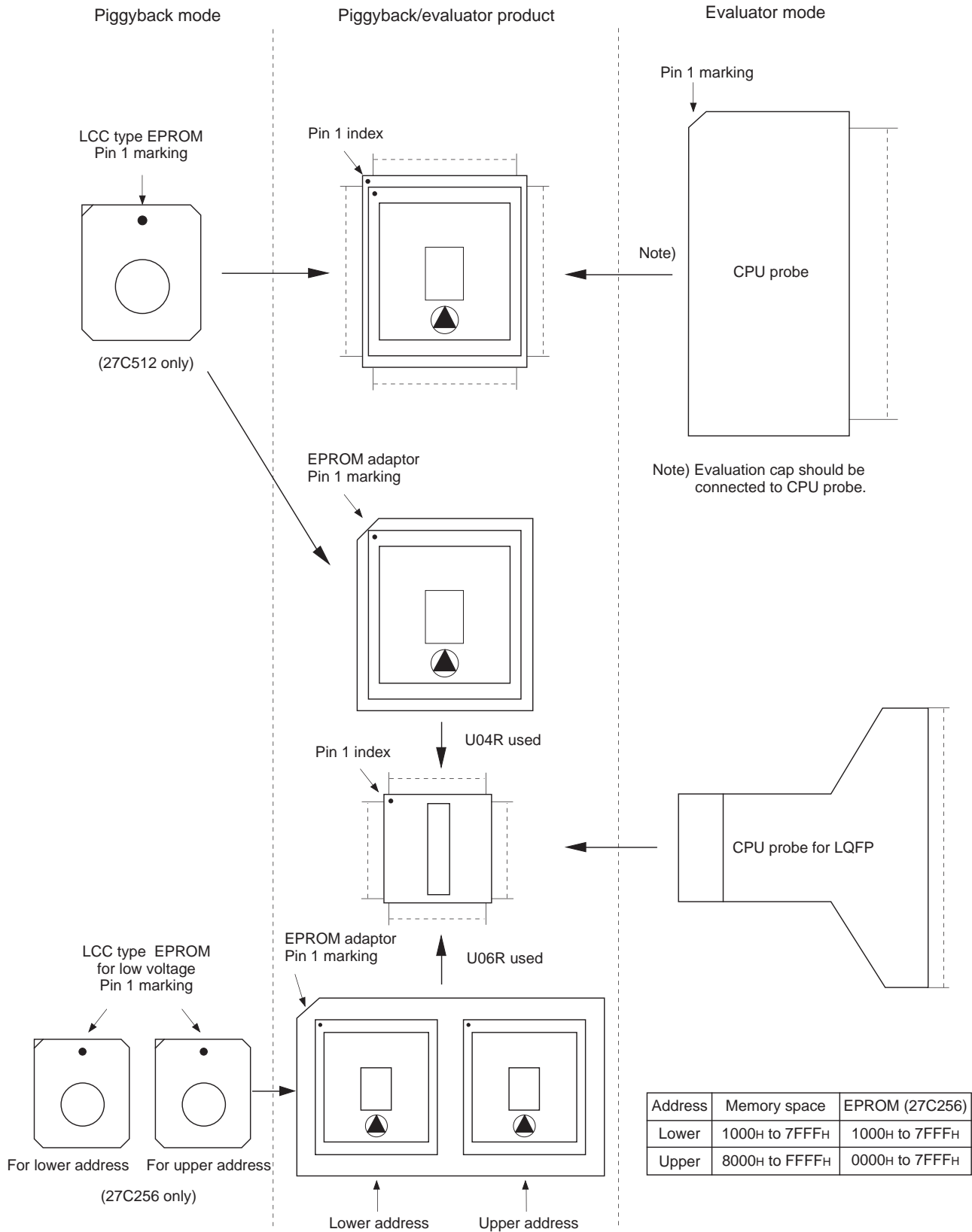
*2 At 12MHz operation ($V_{DD} = 2.7$ to 5.5V), At 16MHz operation ($V_{DD} = 4.5$ to 5.5V)



Products List

Option item	Products			
	Mask product		Piggyback/evaluator product	
	CXP81952M	CXP81960M	CXP81900M-U04Q CXP81900M-U04R	CXP81900M-U06R
Package	100-pin plastic QFP/LQFP		100-pin ceramic PQFP	
ROM capacity	52Kbytes	60Kbytes	EPROM 60Kbytes	
			27C512 × 1	27C256 × 2
Pull-up resistor for reset pin	Existent/Non-existent		Existent	
Supply voltage	2.7 to 5.5V		2.7 to 5.5V	2.7 to 5.5V

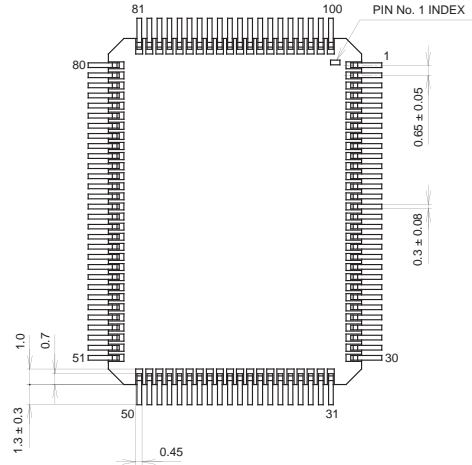
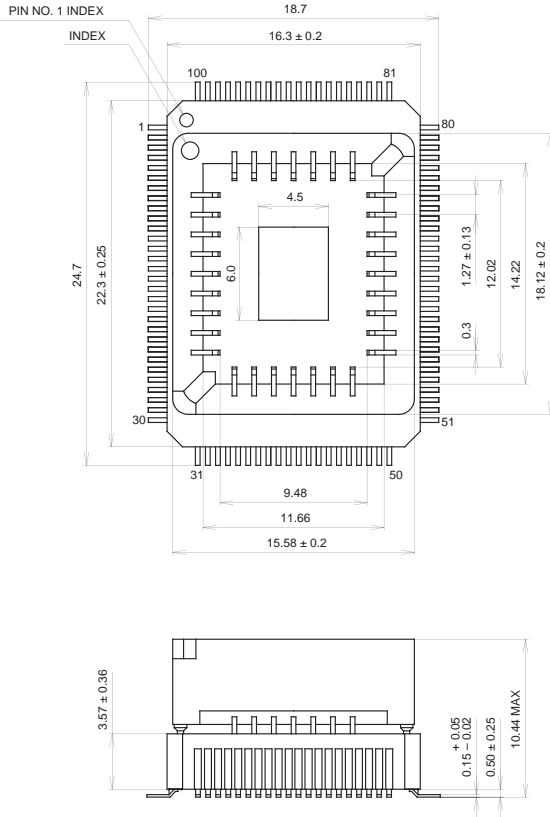
Piggyback mode/evaluator mode can be switched as shown below.



Address	Memory space	EPROM (27C256)
Lower	1000H to 7FFFH	1000H to 7FFFH
Upper	8000H to FFFFH	0000H to 7FFFH

Package Outline Unit: mm

100PIN PQFP (CERAMIC)

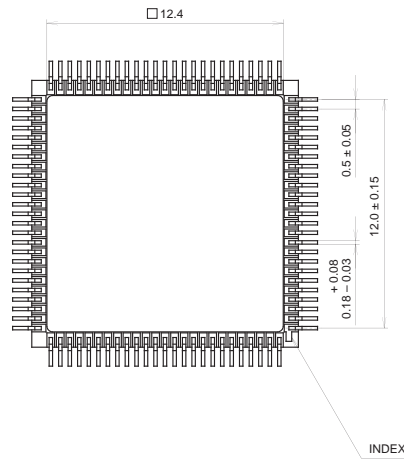
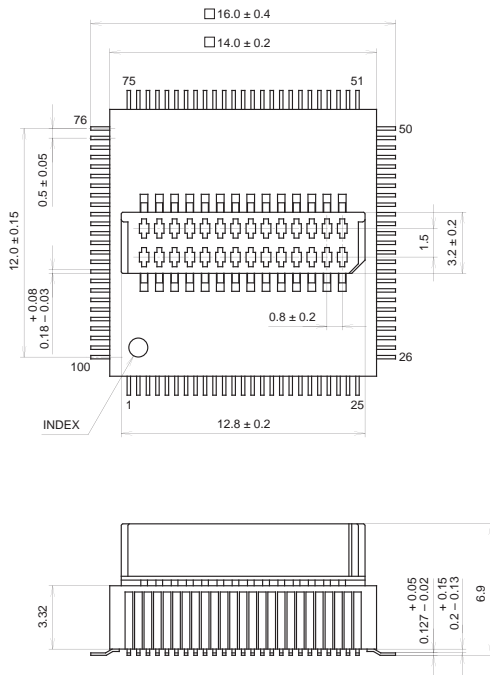


PACKAGE STRUCTURE

SONY CODE	PQFP-100C-L01
EIAJ CODE	AQFP100-C-0000-A
JEDEC CODE	—

PACKAGE MATERIAL	CERAMIC
LEAD TREATMENT	GOLD PLATING
LEAD MATERIAL	42 ALLOY
PACKAGE WEIGHT	5.7g

100PIN PQFP (CERAMIC)



PACKAGE STRUCTURE

SONY CODE	PQFP-100C-L02
EIAJ CODE	AQFP100-C-1414-A
JEDEC CODE	—

PACKAGE MATERIAL	CERAMIC
LEAD TREATMENT	GOLD PLATING
LEAD MATERIAL	42 ALLOY
PACKAGE WEIGHT	2.2g



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