

# Microcomputer Technical Information

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IE-178048-NS-EM1 Emulation Board for $\mu$ PD178048 Subseries  Usage Restrictions		Document No.	ZBG-CD-04-0018	1/2
		Date issued	June 11, 2004	
		Issued by	Development Tool Group Multipurpose Microcomputer Systems Division 3rd Systems Operations Unit NEC Electronics Corporation	
Related documents	IE-178048-NS-EM1 User's Manual: U15928EJ	Notification classification	<input checked="" type="checkbox"/>	Usage restriction
			<input type="checkbox"/>	Upgrade
			<input type="checkbox"/>	Document modification
			<input type="checkbox"/>	Other notification

1. Affected product

IE-178048-NS-EM1

Control code<sup>Note</sup>: B, C, D, E

2. Details of restrictions

This notification concerns restrictions No.4 and No.5. See the attachment for details.

3. Workaround

See the attachment for details.

4. Modification schedule

Products in which No.4 is corrected are scheduled for release as follows.

Newly shipped products: From the shipment from June 2004 (control code: E)

Upgrade for already shipped products: From June 2004

\* Note that this schedule is subject to change without notice. Contact an NEC Electronics sales representative for the detailed release schedule of modified products.

5. List of restrictions

See the attachments for details.

**Note** The "control code" is the second digit from the left in the 10-digit serial number in the warranty supplied with the product you purchased (if it has not been upgraded). If the product has been upgraded, a label indicating the new version is attached to the product and the x in V-UP LEVEL x on this label indicates the control code.

## 6. Revision history

IE-178048-NS-EM1 Emulation Board for  $\mu$ PD178048 Subseries Usage Restrictions

Document Number	Issued on	Description
SBG-T-1729	September 13, 1999	Addition of bugs (No.1 and No.2)
SBG-T-2370	April 23, 2001	Addition of bug (No.3)
ZBG-CD-04-0018	June 11, 2004	Addition of bugs (No.4 and No.5)

## Notes on Using IE-178048-NS-EM1

### 1. Product Version

Control Code	Peripheral EVA Chip
B	$\mu$ PD178048CW (1.3)
C, D, E	$\mu$ PD178048CW (2.1)

There are no products with control code A.

### 2. Product History

No.	Bugs and Changes/Additions to Specifications	Control Code <sup>Note</sup>			
		B	C	D	E
1	Probe for 80-pin GK packages not supported.	×	√	√	√
2	Cannot emulate POC voltage selection register (POCV)	×	√	√	√
3	Cannot emulate power supply voltage of 4.5 V or lower	×	×	√	√
4	Bug in OSCMON (LC oscillation division clock) output	×	×	×	√
5	Bug in OSD display	Permanent restriction			

×: Applicable, √: Not applicable

**Note** The “control code” is the second digit from the left in the 10-digit serial number in the warranty supplied with the product you purchased (if it has not been upgraded). If the product has been upgraded, a label indicating the new version is attached to the product and the x in V-UP LEVEL x on this label indicates the control code.

### 3. Details of Bugs and Added Specifications

No.1 Probe for 80-pin GK (12 × 12 mm) packages not supported

[Description]

The emulation probe for 80-pin plastic TQFP packages (12 × 12 mm, 0.5 mm pitch) cannot be used.

[Workaround]

There is no provisional workaround.

The “178048 PROBE Board” is supplied with control code C and later products.

Use this board when using the emulation probe for 80-pin plastic TQFP packages (12 × 12 mm, 0.5 mm pitch).

No.2 Cannot emulate POC voltage selection register (POCV)

[Description]

The POC voltage selection register (POCV) cannot be emulated.

[Workaround]

There is no provisional workaround.

Emulation of the POC voltage selection register (POCV) is possible in control code C and later products.

No.3 Cannot emulate power supply voltage of 4.5 V or lower

[Description]

The power supply voltage cannot be emulated if it is 4.5 V or lower.

Emulation when the power-on-clear generation voltage is 3.5 V is also impossible.

[Workaround]

There is no provisional workaround.

Emulation when the power-on-clear generation voltage is 3.5 V is possible in control code D and later products.

No.4 Bug in OSCMON (LC oscillation division clock) output

[Description]

OSCMON (LC oscillation division clock), an alternate-function pin of P74, cannot be used for output.

(The use in output mode can be set in the register but output is not possible.)

[Workaround]

There is no workaround. This bug has been corrected in control code E or later.

No.5 Bug in OSD display

[Description]

The OSD (On Screen Display) function cannot be used unless P74/OSCMON is set to output mode.

[Workaround]

There is no workaround. Regard this as a permanent restriction.

## 4. General Cautions on Handling This Product

### 4.1 Cases in which NEC Electronics warranty does not apply

- When the product is disassembled, reconstructed, or modified by the user
- When the product receives a heavy shock such as being dropped or falling down
- When the product is used with excessive voltage or is stored outside the guaranteed temperature range or guaranteed humidity range
- When power is applied while the AC adapter, interface cable, or target system is not connected securely
- When the AC adapter cable, interface cable, or emulation probe is excessively twisted or stretched
- When an AC adapter other than the one supplied with the product is used
- When water is spilled on the product
- When the product and target system are connected in a system in which the voltage potential between the target GND and target system GND differ
- When the connector or cable is connected or disconnected while the power is being applied to the product
- When an excessive load is applied to the connector or socket

#### **4.2 Cautions on safe use**

- The product heats up (to approx. 50 to 60°C) when it operates for a long time. Take care not to receive injuries such as burns from a rise in the temperature.
- Be very careful to avoid electric shocks. There is risk of electric shock if the product is used as described in item 1 above.