

Microcomputer Technical Information

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IE-780233-NS-EM4 In-Circuit Emulator for μ PD780232 Subseries Usage Restrictions		Document No.	ZBG-CD-04-0090	1/2
		Date issued	November 30, 2004	
		Issued by	Development Tool Group Multipurpose Microcomputer Systems Division 4th Systems Operations Unit NEC Electronics Corporation	
Related documents	IE-780233-NS-EM4 User's Manual: U14666EJ1V0	Notification classification	√	Usage restriction
				Upgrade
				Document modification
				Other notification

1. Affected product

IE-780233-NS-EM4

Control code^{Note}: A, B, C

2. Details of restrictions

Specification No. 2 has been added. See the attachment for details.

3. Workarounds

See the attachment for details.

4. Modification schedule

Products in which No. 2 is implemented are scheduled for release as follows.

Newly shipped products: From the shipment of December 2004 (control code: C)

Upgrade for already shipped products: Not planned.

* Note that this schedule is subject to change without notice. For the detailed release schedule of modified products, contact an NEC Electronics sales representative.

5. List of restrictions

See the attachment.

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 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. Document revision history

IE-780233-NS-EM4 In-Circuit Emulator for μ PD780232 Subseries Usage Restrictions

Document Number	Issued on	Description
SBG-T-1546	March 18, 1999	Newly created. Addition of new bug (No. 1)
ZBG-CD-04-0090	November 30, 2004	Addition of specification (No. 2)

Notes on Using IE-780233-NS-EM4

1. Product Version

Control Code ^{Note}	Remark
A	-
B	-
C	-

Note The “control code” is the second digit from the left in the 10-digit serial number. 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.

2. Product History

No.	Bugs and Changes/Additions to Specifications	Control Code		
		A	B	C
1	Modification in conjunction with IE-78K0-NS-P01 upgrade	×	√	√
2	Support of low voltage (3.3 V)	-	-	√

×: Applicable, √: Not applicable or already corrected, -: Specification change not implemented

3. Details of Bugs and Added Specifications

No. 1 Modification in conjunction with IE-78K0-NS-P01 upgrade

[Description]

The IE-780233-NS-EM4 must be modified in conjunction with the upgrade of the IE-78K0-NS-P01 to cope with a bug regarding low-voltage emulation (see SBG-T-1545).

[Workaround]

There is no workaround. This bug has been corrected in control code B.

No. 2 Support of low voltage (3.3 V)

[Description]

An operating voltage of up to 3.3 V is now supported. This is a different voltage from the operating voltage of the target device.

	Device	Control Code B or Earlier	Control Code C or Later
Operating voltage	2.7 to 5.5 V ^{Note} 3.0 to 5.5 V ^{Note} 4.5 to 5.5 V	4.5 to 5.5 V	3.3 to 5.5 V

Note Products for which the supply voltage range has been expanded

[Workaround]

This item has been implemented in control code C.

4. Cautions

4.1 General cautions on handling this product

a) Circumstances not covered by product guarantee

- If the product was disassembled, altered, or repaired by the customer
- If it was dropped, broken, or given another strong shock
- Use at overvoltage, use outside guaranteed temperature range, storing outside guaranteed temperature range
- If power was turned on while the power supply, PC interface cable, or target system connection was in an unsatisfactory state
- If the power supply cable, PC interface cable, emulation probe, or the like was bent or pulled excessively
- If a power supply other than the one supplied with the product is used
- If the product got wet
- If the product and target system were connected while a potential difference existed between the GND of the product and the GND of the target system
- If a connector or cable was removed while the power was being supplied to the product
- If an excessive load was placed on a connector or socket

b) Safety precautions

- If used for a long time, the product may become hot (50°C to 60°C). Be careful of low temperature burns and other dangers due to the product becoming hot.
- Be careful of electrical shock. There is a danger of electrical shock if the product is used as described above in **a) Circumstances not covered by product guarantee.**