

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-H8*-A437A/E	Rev.	1.00
Title	Note Regarding the Treatment of Pins when the USB is not to be Used		Information Category	Technical Notification		
Applicable Product	See below.	Lot No.	Reference Document	See below.		
		All lots				

In the hardware manuals listed below, we would like to inform you of a correction to statements on the treatment of pins when the USB is not to be used.

The statement in Table D.1, Treatment of Unused Pins, has been corrected as shown below.

[Before correction]

Table D.1 Treatment of Unused Pins

Pin Name	Mode 4	Mode 5	Mode 6	Modes 3, 7
VBUS	• Leave this pin open			

[After correction]

Table D.1 Treatment of Unused Pins

Pin Name	Mode 4	Mode 5	Mode 6	Modes 3, 7
VBUS	• Connect this pin to Vss via a pull-down resistor			

■ Notes

When the VBUS pin is open-circuit, the electric characteristics in deep software standby mode (RAM, USB retained) are not satisfied. Statements on other pages about leaving the VBUS pin open-circuit, if followed, create no problems, neither in terms of electrical characteristics nor of reliability.

[Related Documents]

Series	Group	Related Documents
H8SX/1600	H8SX/1665, H8SX/1665M	H8SX/1665 Group H8SX/1665M Group Hardware Manual (REJ09B0498-0200)
	H8SX/1665MZ	H8SX/1665MZ Group Hardware Manual (REJ09B0597-0100)
	H8SX/1655, H8SX/1655M	H8SX/1655 Group H8SX/1655M Group Hardware Manual (REJ09B0499-0200)
	H8SX/1668R, H8SX/1668M	H8SX/1668R Group H8SX/1668M Group Hardware Manual (REJ09B0412-0200)
	H8SX/1668MZ	H8SX/1668MZ Group Hardware Manual (REJ09B0596-0100)
	H8SX/1658R, H8SX/1658M	H8SX/1658R Group H8SX/1658M Group Hardware Manual (REJ09B0413-0200)

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