RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU	Document No.	TN-RX*-A131A/E	Rev.	1.00	
Title	Note on Using Boot Mode (USB Interface)	Information Category	Technical Notification			
Applicable Product	RX64M Group RX71M Group	Lot No.		RX64M Group User's Manual: Hardware Rev 1.00		
		All	Reference Document	(R01UH0377EJ0100) RX71M Group User's Manual: Hardware Rev 1.00 (R01UH0493EJ0100)		

(1) Note

The frequency of the main clock oscillator which can be used in boot mode (USB interface) is 8 MHz, 10 MHz, 12 MHz, 15 MHz, 16 MHz, 20 MHz, or 24 MHz. When using a resonator which fundamental frequency is less than 20 MHz, however, the main clock oscillator may oscillate at a third overtone mode and boot mode (USB interface) may not start up. The resonators which may oscillate at a third overtone mode are listed below.

Resonator	8 MHz	10 MHz	12 MHz	15 MHz	16 MHz	20 MHz	24 MHz
Quartz crystal	Applicable	Applicable	Applicable	Applicable	Applicable	Not applicable*1	Not applicable*1
Ceramic resonator	Applicable	Applicable	Applicable	Applicable	Applicable	Not applicable*1	Not applicable*1

Note 1. This resonator is applicable when the recommended value of the MOFCR.MODRV2[1:0] bits by the resonator manufacturer is other than 00b.

This note does not apply to boot mode (SCI interface).

(2) Countermeasure

When using boot mode (USB interface), please use a resonator which is indicated as "Not applicable" in the table above.

