

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RL*-A067A/E	Rev.	1.00
Title	RL78/G1D module: Notes about power supply		Information Category	Technical Notification		
Applicable Product	RL78/G1D module: RY7011Axxx	Lot No.	Reference Document	RL78/G1D module(RY7011) User's Manual: Hardware Rev.1.01 R02UH0004EJ0101(Jun. 2016)		
		All lots				

This document describes append to User's Manual as the following description about a usage note regarding the power supply.

1. Notes at the power supply to power supply pin(V_{DD})

Concerning a power supply to the "V_{DD}", a power supply noise may affect RF operation, especially in case of using a switching regulator bringing periodical noise. It might cause disconnection of Bluetooth communication.

2. Workaround

Please use a low noise power supply, such as a battery. If customer will adopt a power supply containing noise superimposed in output such as a switching regulator, customer shall validate that the device and system of the customer works without problem.

3. Revision of User's Manual

●Append of the description in "chapter 10 NOTES ON LAYOUT"

10.5 About noise of power supply pin.

- Please implement control measures to suppress noise at a power supply (V_{DD}) as low as possible.
- Especially, in case of using a switching supply for the power supply, appropriate control measures depending on the device and system of the customer might be needed for the periodical noise of the power supply.
- In such cases, customer shall validate that the device and system of the customer works without problem.