

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU	Document No.	TN-RL*-A0088A/E	Rev.	1.00
Title	Correction for Incorrect Description Notice RL78/G11 Descriptions in the User's Manual: Hardware Rev. 2.00 Changed		Information Category	Technical Notification	
Applicable Product	RL78/G11 Group	Lot No.	Reference Document	RL78/G11 User's Manual: Hardware Rev. 2.00 R01UH0637EJ0200 (Feb. 2018)	
		All lots			

This document describes misstatements found in the RL78/G11 User's Manual: Hardware Rev. 2.00 (R01UH0637EJ0200).

Corrections

Applicable Item	Applicable Page	Contents
35.6.1 A/D converter characteristics (1) When reference voltage (+) = AVREFP/ANI0 (ADREFP1 = 0, ADREFP0 = 1), reference voltage 「Conversion time」	Page 1051	Incorrect descriptions revised
35.6.1 A/D converter characteristics (4) When reference voltage (+) = Internal reference voltage (ADREFP1 = 1, ADREFP0 = 0), 「HS (high-speed main) mode」	Page 1052	Incorrect descriptions revised
36.6.1 A/D converter characteristics (1) When reference voltage (+) = AVREFP/ANI0 (ADREFP1 = 0, ADREFP0 = 1), 「Conversion time」	Page 1105	Incorrect descriptions revised

Document Improvement

The above corrections will be made for the next revision of the User's Manual: Hardware.

Corrections in the User's Manual: Hardware

No.	Corrections and Applicable Items			Pages in this document for corrections
	Document No.	English	R01UH0637EJ0200	
1	「Conversion time」		Page 1051	Page 3
2	「HS (high-speed main) mode」		Page 1052	Page 4
3	「Conversion time」		Page 1105	Page 5

Incorrect; **Correct**: Gray hatched

Revision History

RL78/G11 Correction for incorrect description notice

Document Number	Issue Date	Description
TN-RL*-A0088A/E	Mar. 11, 2019	First edition issued Corrections No.1 to No.3 revised (this document)

1. CHAPTER 35 ELECTRICAL SPECIFICATIONS(T_A=-40 to +85°C)

35.6.1 A/D converter characteristics

(1) When reference voltage (+) = AVREFP/ANI0 (ADREFP1 = 0, ADREFP0 = 1), reference voltage

Incorrect:

Conversion time	tCONV	10-bit resolution Target pin: internal reference voltage, and temperature sensor output voltage	3.6 V ≤ VDD ≤ 5.5 V	2.375		39	μs
			2.7 V ≤ VDD ≤ 5.5 V	3.5625		39	μs
			2.4 V ≤ VDD ≤ 5.5 V	17		39	μs

Correct:

Conversion time	tCONV	10-bit resolution Target pin: internal reference voltage, and temperature sensor output voltage	3.6 V ≤ VDD ≤ 5.5 V	2.375		39	μs
			2.7 V ≤ VDD ≤ 5.5 V	3.5625		39	μs
			1.8 V ≤ VDD ≤ 5.5 V	17		39	μs

2. **CHAPTER 35 ELECTRICAL SPECIFICATIONS(T_A=-40 to +85°C)**

35.6.1 A/D converter characteristics

(4) When reference voltage (+) = Internal reference voltage (ADREFP1 = 1, ADREFP0 = 0),

Incorrect:

(T_A = -40 to +85°C, 1.8 V ≤ V_{DD} ≤ 5.5 V, 1.6 V ≤ EV_{DD} ≤ V_{DD}, V_{SS} = 0 V, Reference voltage (+) = V_{BGR} ^{Note 3}, Reference voltage (-) = AV_{REFM} = 0 V ^{Note 4}, **HS (high-speed main) mode**)

Correct:

(T_A = -40 to +85°C, 1.8 V ≤ V_{DD} ≤ 5.5 V, 1.6 V ≤ EV_{DD} ≤ V_{DD}, V_{SS} = 0 V, Reference voltage (+) = V_{BGR} ^{Note 3}, Reference voltage (-) = AV_{REFM} = 0 V ^{Note 4})

3. **CHAPTER 36 ELECTRICAL SPECIFICATIONS(T_A=-40 to + 105°C)**

36.6.1 A/D converter characteristics

(1) When reference voltage (+) = AVREFP/ANI0 (ADREFP1 = 0, ADREFP0 = 1),

Incorrect:

Conversion time	tCONV	10-bit resolution Target pin: Internal reference voltage, and temperature sensor output voltage	3.6 V ≤ VDD ≤ 5.5 V	2.375		39	μs
			2.7 V ≤ VDD ≤ 5.5 V	3.5625		39	μs
			1.8 V ≤ VDD ≤ 5.5 V	17		39	μs

Correct:

Conversion time	tCONV	10-bit resolution Target pin: Internal reference voltage, and temperature sensor output voltage	3.6 V ≤ VDD ≤ 5.5 V	2.375		39	μs
			2.7 V ≤ VDD ≤ 5.5 V	3.5625		39	μs
			2.4 V ≤ VDD ≤ 5.5 V	17		39	μs