

RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RZ*-A0118A/E	Rev.	1.00
Title	RZ/G2H, G2M, G2N and G2E Correction of section 1. Overview		Information Category	Technical Notification		
Applicable Product	RZ/G Series, 2nd Generation	Lot No.	Reference Document	RZ/G Series, 2nd Generation User's Manual: Hardware Rev.1.11 (R01UH0808EJ0111)		
	RZ/G2H RZ/G2M V1.3, V3.0 RZ/G2N RZ/G2E	All lots				

This technical update describes document correction of RZ/G Series, 2nd Generation product.

[Summary]

Correction of the LVDS max frequency in Section 1. Overview

[Priority level]

Importance: "Normal"

Urgency: "Normal"

[Products]

RZ/G2H

RZ/G2M V1.3, V3.0

RZ/G2N

RZ/G2E

[Section number and title]

Section 1. Overview

“This is empty adjustment page to compare next Current (from) and Correction (to) on facing page. “

(By using two pages view of PDF readers this enables previously and prospectively view on odd and even pages.)

[Correction]

1. Section 1. Overview Page 1-11, 1.2.6 Graphics Unit, Item: Display Unit (DU) (For All Products), Description for LVDS interface (per channel)

Current (from):

Display Unit (DU) (For All Products)	Display channel	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N 3 independently controllable channels RZ/G2E 2 independently controllable channels
	Interface	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> HDMI 1 channel (option) LVDS 1 channel RZ/G2E <ul style="list-style-type: none"> LVDS 2 channels RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N RZ/G2E <ul style="list-style-type: none"> Digital RGB 1 channel (8-bit precision for each RGB color)
	LVDS interface (per channel)	<ul style="list-style-type: none"> Output: compliant with TIA/EIA-644; five pairs of differential output (four pairs of data and one pair of clock) Operating frequency: Dotclk 148.5 MHz
	HDMI (option)	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> Support HDMI 1.4b class transfer rate, up to 3D format 1080p60/4Kp30 Dotclk 297 MHz
	Screen size and number of composite planes per channel	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> Maximum screen size: 3840 x 2160 RZ/G2E <ul style="list-style-type: none"> Maximum screen size: 1920 x 1080 (also depends on frame rate) RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N RZ/G2E <ul style="list-style-type: none"> Number of planes specifiable: 5 (VSP2 processing) Number of planes specifiable: 1 (DU)
	CRT scanning method	Non-interlaced
	Synchronization method	Master
	Internal color palette (VSP2)	<ul style="list-style-type: none"> Includes four color palette planes which can display 256 of 260 thousands colors at the same time.
	Output display numbers	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> Three output channels (resolutions for different displays) RZ/G2E <ul style="list-style-type: none"> Two output channels RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> Output on rising and falling edges of the synchronizing signal (resolution for the same display) RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N RZ/G2E <ul style="list-style-type: none"> 8-bit precision for each RGB color
	Blending ratio settings (VSP2)	Number of color palette planes with blending ratio: 4
	Dot clock	Switchable between external input and internal clock

Correct (to):

Display Unit (DU) (For All Products)	Display channel	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N 3 independently controllable channels RZ/G2E 2 independently controllable channels
	Interface	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> • HDMI 1 channel (option) • LVDS 1 channel RZ/G2E <ul style="list-style-type: none"> • LVDS 2 channels RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N RZ/G2E <ul style="list-style-type: none"> • Digital RGB 1 channel (8-bit precision for each RGB color)
	LVDS interface (per channel)	<ul style="list-style-type: none"> • Output: compliant with TIA/EIA-644; five pairs of differential output (four pairs of data and one pair of clock) • Operating frequency: Dotclk 150 MHz
	HDMI (option)	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> • Support HDMI 1.4b class transfer rate, up to 3D format 1080p60/4Kp30 • Dotclk 297 MHz
	Screen size and number of composite planes per channel	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> • Maximum screen size: 3840 x 2160 RZ/G2E <ul style="list-style-type: none"> • Maximum screen size: 1920 x 1080 (also depends on frame rate) RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N RZ/G2E <ul style="list-style-type: none"> • Number of planes specifiable: 5 (VSP2 processing) • Number of planes specifiable: 1 (DU)
	CRT scanning method	Non-interlaced
	Synchronization method	Master
	Internal color palette (VSP2)	<ul style="list-style-type: none"> • Includes four color palette planes which can display 256 of 260 thousands colors at the same time.
	Output display numbers	RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> • Three output channels (resolutions for different displays) RZ/G2E <ul style="list-style-type: none"> • Two output channels RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N <ul style="list-style-type: none"> • Output on rising and falling edges of the synchronizing signal (resolution for the same display) RZ/G2H RZ/G2M V1.3 RZ/G2M V3.0 RZ/G2N RZ/G2E <ul style="list-style-type: none"> • 8-bit precision for each RGB color
	Blending ratio settings (VSP2)	Number of color palette planes with blending ratio: 4
	Dot clock	Switchable between external input and internal clock

[Description]

Correction of typo in LVDS interface (per channel).

[Reason for Correction]

Typo mistake in previous version. Correct value described in Section 73.14 LVDS-IF.

- End of Document -