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Key Features of Renesas Electronics' New R8A66980BG and R8A66983BG SoCs

Item	Specifications	
Product name	R8A66980BG	R8A66983BG
Power supply voltage	Three power supplies: 1.2 V/1.8 V/3.3 V	
Supported panel resolutions	WXGA (up to WSXGA+)	Full HD (up to Full HD)
VIF/SIF circuit	Supporting existing analog RF	
Analog inputs	<ul style="list-style-type: none"> • Video A/D converter × 3 channels • Audio A/D converter × 1 channel (L + R) 	
Analog outputs	Audio D/A converter × 2 channel (L + R)	
LVDS output	10-bit dual output	
Y/C separator	3-D	
De-interlacing	3-D	
Noise reduction	3-D	
Closed caption decoder (CCD)	On-chip	
NCM (Natural Color Matrix)	On-chip	
Onscreen display (OSD)	<ul style="list-style-type: none"> • Alpha blending • Blink • Border 	
CPU interface	<ul style="list-style-type: none"> • Serial flash IF, CSIO, etc. 	
Audio demodulator	On-chip	
USB	On-chip (Host)	
Package	256-pin PBGA (17 mm × 17 mm)	