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Products

Microcontrollers (MCU) and Microprocessors (MPU)

SuperH RISC engine Family

SH7260 Series

SH7268, SH7269

R5S72691W266BG



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Products

Microcontrollers (MCU) and
Microprocessors (MPU)
SuperH Family
SH7260 Series
SH7268, SH7269

R5S72691W266BG

Overview

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Product Spec

☒ Basic Information ☒ Memory ☒ CPU (Bit, Clock, DMA, External Bus etc) ☒ Timers ☒ Analog ☒ Interfaces ☒ Display Functions
☒ Operating Conditions ☒ Remarks

Basic Information

Product Status	Mass Production
Family	SuperH
Series	SH7260
Group	SH7269

Memory

Program memory	0 KB ROMless
RAM	2624 KB
Cache Memory Remark	8 KB (instruction), 8 KB (operand), 4-way set associative

CPU (Bit, Clock, DMA, External Bus etc)

CPU	SH2A-FPU (32-bit)
Max. Frequency	266 MHz
Sub-Clock (32.768 kHz)	YES
PLL	YES
Real-Time Clock (RTC)	YES
Power-On Reset	YES
Floating Point Unit	YES
DMA Remarks	DMAC x 16 ch
External Address/Data Bus	YES
External Interrupt Pins	17
I/O Ports	149

Timers

16-bit Timers	7 ch
Watchdog Timers	1 ch
Other Timers	10-bit timer x 2
PWM Output	32
3-Phase PWM Output Function	YES

Analog

A/D Converters	10-bit x 8 ch
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Interfaces

CAN	3 ch
USB Ports	1
USB Host	YES
USB Peripheral	YES
USB High-Speed Support	YES
USB Remarks	Low-speed Support (Host only)
CSIs	16 ch
SPIs	5 ch
UARTs	8 ch
I2Cs	4 ch
IEBus	1 ch
Serial Interface Remarks	SCIF (CSI:8ch/UART:8ch), RSPI (SPI:2ch), RQSPI (SPI:2ch), SPI multi (SPI:1ch), SSI (CSI:6ch), SIOF (CSI:1ch), SPDIF (CSI:1ch)

Display Functions

High-resolution display controller	VDC4: SVGA (800 x 600)
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Operating Conditions

Operating Voltage	3.0 to 3.6 V
Power Supply	VCC = 1.15 to 1.35 V, PVCC = 3.0 to 3.6 V, PLLVCC = 3.0 to 3.6 V, AVCC = 3.0 to 3.6 V, USBAVCC = 1.15 to 1.35 V, USBAPVCC = 3.0 to 3.6 V, VDAVCC = 3.0 to 3.6 V, VSS = AVSS = VDAVSS = 0 V
Operating Temperature	-20 to 85 ... (Ambient Temperature)

Remarks
Automotive, General Purpose, LCD Control, Connectivity

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Order Information

Orderable Part No. 	Date of PLP Termination	Production Status 	Packing	EU RoHS	RoHS-pdf (China-RoHS)
F5S72691W266BG#UD	 Feb. 2029	Mass Production	Tray	Compliant	 English

 : Product participating in the Product Longevity Program [More information on the Product Longevity Program](#)

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Package

Package	
Pins	272
Pin pitch	0.8 mm
Package Type	FBGA
Body Size	17x17 mm ²
Package drawing	 prbg0272ga_a
Mount pad drawing	 fig0013e
Mounting height	1.9 mm
Mass	0.9 g
Renesas code	PRBG0272GA-A
JETA code	P-FBGA272-17x17-0.80

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