



Products

Microcontrollers (MCU) and Microprocessors (MPU)

SuperH Family

SH7260 Series

SH7262, SH7264

R5S72644W144FPU

Product Spec

Order Information

Package

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	SH7264

Memory	
Program memory	0 KB ROMless
RAM	704 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	144 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	129

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

Interfaces	
USB Ports	1
USB Host	YES
USB Peripheral	YES
USB High-Speed Support	YES
USB Remarks	Low-speed Support (Host only)
CSIs	14 ch
SPIs	2 ch
UARTs	8 ch
I2Cs	3 ch
Serial Interface Remarks	SCIF (CS1:8ch/UART:8ch), RSPI (SPI:2ch), SSI (CS1:4ch), SIOF (CS1:1ch), SPDIF (CS1:1ch)

Display Functions	
High-resolution display controller	VDC3: VGA (640 x 480)

Operating Conditions	
Operating Voltage	3.0 to 3.6 V
Power Supply	VCC = PLLVCC = USBDVCC = USBUVCC = 1.1 to 1.3 V, PVCC = USBDPVCC = 3.0 to 3.6 V, AVCC = 3.0 to 3.6 V, USBAVCC = 1.1 to 1.3 V, USBAPVCC = 3.0 to 3.6 V, VSS = PLLVSS = AVSS = USBDVSS = USBAVSS = USBDPVSS = USBAPVSS = USBUVSS = 0 V
Operating Temperature	-20 to 85 °C (Ambient Temperature)

Remarks	
Automotive, General Purpose, LCD Control, Connectivity	

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Order Information

Buy

Orderable Part No.	Production Status	EU RoHS	RoHS-pdf (China-RoHS)
R5S72644W144FP#U0	Mass Production	Compliant	English

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Package

Package	
Pins	208
Pin pitch	0.5 mm
Package Type	LFQFP
Body Size	28x28 mm ²
Package drawing	plqp0208kb_a
Mount pad drawing	fig0009e
Mounting height	1.7 mm
Mass	2.7 g
Renesas code	PLQP0208KB-A
JEITA code	P-LFQFP208-28x28-0.50

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