



Part No. R5S72624W144FPU

[Documents](#)

Product category MPU/MCU > SuperH RISC engine Family > SH7260 Series > SH7262, SH7264

Specification		Orderable Part No.			
1000 Piece Budgetary Price Bit Size Family Series Group ROM RAM ROM Type CPU Minimum Instruction Execution Time (ns) Operating Frequency/ Supply Voltage Production Status Remarks EEPROM(Bytes) Data Flash Cache Memory Program Security Basic Instructions Dhrystone Performance Multiplier Multiply -Accumulate Instruction Barrel Shifter FPU MMU DMAC (Channels)	-	Orderable Part No.	Packing	Environmental	remark
		Mass Production			
	32-bit RISC	R5S72624W144FP#U0 Mass Production	-	-	-
	<u>SuperH</u>				
	<u>SH7260</u>				
	<u>SH7262</u>				
	-				
	640K(SRAM) + 64K(high-speed)				
	ROMless				
	SH2A-FPU Core				
	6.9(@144MHz)				
	144MHz/ 1.1 to 1.3V (internal), 3.0 to 3.6V (I/O)				
	Mass Production				
	USB				
	-				
	-				
	8K(instruction), 8K(data), 4-way set-associative				
	-				
	112				
	345MIPS(144MHz)				
	32 x 32 → 64				
	32 x 32 + 64 → 64				
	Yes				
	Yes				
	-				
	16(one of them is available externally)				

EXDMAC (Channels)	-
DTC/DMACII	-
Address Space (Bytes)	4G
Bus Structure	Separate bus(8/16 bit)
Bus State Controller	SDRAM/ Data Multiplexed I/O/ Burst ROM/ Bytes control SRAM/ PCMCIA
External Bus Interface	Yes
SDRAM Controller	Yes
DRAM Controller	-
PCI Controller	-
Endian Conversion	-
Host Interface	-
Clock Generation Circuit	1 circuit (CPG)
PLL	Yes
Subclock	Yes
RTC	Yes
On-Chip Oscillator	-
Oscillation Stop Detection	-
Frequency Divider	Yes
Power Save	Sleep/ Software standby/ Deep standby/ Module standby
Power-On Reset/POR	-
LVD (Low Voltage Detection)	-
A/D Converter Resolution x Channels	10-bit x 4
A/D Converter Sample and Hold	Yes
A/D Converter Multi-Channel Sample and Hold	-

D/A Resolution x Circuits	-
8-bit Timer	-
10-bit Timer	-
14-bit Timer	-
16-bit Timer	7(MTU2 x 5, CMT x 2)
24-bit Timer	-
32-bit Timer	-
Input Capture	16(shared with MTU2)
Output Compare	16(shared with MTU2)
PWM Output	16(shared with MTU2)
Real-Time Port	-
Programmable Pulse Generator	1(shared with MTU2)
Event Counter	7(shared with CMT, MTU2)
2-Phase Encoder Input	2(shared with MTU2)
3-Phase Inverter Control	1(shared with MTU2)
Watchdog Timer	1
Serial Interface (Total)	8
Serial Interface Clock Sync./ Clock Async	8
Serial Interface Clock Sync. Only	-
Serial Interface Clock Async. Only	-
I2C-bus	3
IEBus	-
Smart Card/ SIM	-
SSU/ Special Serial I/O	6(RSPI x 2, SSI x 4)
CAN (Channels)	-
CAN	

(Message Box)	-
FlexRay	-
Ethernet	-
USB HOST	1(High-Speed)
USB Function	High-Speed
LPC/ ISA	-
IrDA	-
LCD	-
VFD	-
OSD	-
CRC Calculation Circuit	-
X/Y Converter	-
I/O Ports Input Only (Numbers)	4
I/O Ports CMOS Output Only (Numbers)	-
I/O Ports CMOS I/O (Numbers)	89
I/O Ports High Voltage Port (Numbers)	-
I/O Ports N-Channel Open Drain Port (Numbers)	6
I/O Ports DTMF	-
I/O Ports High Current Drive Port	-
I/O Ports NMOS Push-Pull	-
I/O Ports Pull-Up Resistor	99(I/O:89, input:4, open drain:6)
External Interrupt Pins	17(NMI, IRQ x 8, PINT x 8)
Boundary	Yes

Scan/JTAG	
On-Chip Debug	Yes
On-Board Flash Program	-
ROM Correction Function	-
Other Functions	Video in, Display cntl., CDROM decoder, SRC, FLCTL
Operating Ambient Temperature (°C)	-20 to 85
Quality Level	<u>Industry usage etc.</u>
Package Code	<u>PLOP0176KB-A (FP-176E)</u>