

R5F72433N100FP

User's Manual: Hardware

The SH7243 is a high-end single chip microcomputer incorporating an SH-2A core. The SH7243 incorporates 256KB or 128KB of Flash memory and operates at 100MHz. The SH7243 also incorporates register banks. When an interrupt occurs, CPU internal register information is stored in registers at high speed. This makes it possible to improve real-time control performance greatly. The SH7243 also incorporates various peripheral functions suitable for industrial application AC servos, general-purpose inverters and robots, such as a 3 channel serial interface, a powerful 16-bit timer suitable for inverter control, a 12-bit A/D converter, etc. The SH7243 realizes 5V single power supply and 3.3V single power supply operation despite operating at the high-speed of 100MHz. (Analog power supply is 5V)

Overview	Design Support	Documentation	Sample Code	Software & Tools	Ordering
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Recommended Product

R5F72433N100FP#U0

Production Status: Mass Production

PARAMETRICS

Parameters	R5F72433N100FP
Package	
Pin Count	100
Package Type	LFQFP
Memory	
Program memory	128 KB Flash memory
RAM	8 KB
CPU (Bit, Clock, DMA, External Bus etc)	
CPU	SH-2A (32-bit)
Max. Frequency	100 MHz
PLL	YES
Power-On Reset	YES
DMA Remarks	DMAC x 8 ch, DTC
External Address/Data Bus	YES
External Interrupt Pins	9
I/O Ports	71
Timers	
16-bit Timers	11 ch
Watchdog Timers	1 ch
PWM Output	24
3-Phase PWM Output Function	YES
Analog	
A/D Converters	12-bit x 8 ch
Interfaces	
CSIs	3 ch
UARTs	3 ch
Serial Interface Remarks	SCI (CSI:2ch/UART:2ch), SCIF (CSI:1ch/UART:1ch)
Operating Conditions	
Operating Voltage	3 to 5.5 V
Power Supply	V _{CC} =PLL V _{CC} =3.0-5.5V, A _{VC} =AVRE =4.5-5.5V
Operating Temperature	-20 to 85 °C (Ambient Temperature)

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