

# R5F72167BDFP

- Products
- Microcontroller and Microprocessor
- SuperH Family
- SH7216 Series
- SH7214, SH7216

**R5F72167BDFP**

- Overview
- Documentation
- Design Support

- Product Spec
- Order Information Contact
- Package

## Product Spec

- Basic Information
- Memory
- CPU (Bit, Clock, DMA, External Bus etc)
- Timers
- Analog
- Interfaces
- Operating Conditions

Basic Information	
Product Status	Mass Production
Family	SuperH
Series	SH7216
Group	SH7216

Memory	
Program memory	1024 KB Flash memory
RAM	128 KB
Data Flash	32 KB
Cache Memory Remark	ROM cache

CPU (Bit, Clock, DMA, External Bus etc)	
CPU	SH2A-FPU (32-bit)
Max. Frequency	200 MHz
PLL	YES
Power-On Reset	YES
Floating Point Unit	YES
DMA Remarks	DMAC x 8 ch, DTC
External Address/Data Bus	YES
External Interrupt Pins	9
I/O Ports	112

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	
CAN	1 ch
USB Ports	1
USB Peripheral	YES
CSIs	5 ch
SPIs	4 ch
UARTs	5 ch
I2Cs	1 ch
Serial Interface Remarks	SCI (CSI:4ch/UART:4ch), SCIF (CSI:1ch/UART:1ch), RSPI, I2C

Operating Conditions	
Operating Voltage	3.0 to 3.6 V
Power Supply	VCCQ=PLLVCC=DrVcc=3.0-3.6V, AVCC=AVREF=4.5-5.5V
Operating Temperature	-40 to 85 °C (Ambient Temperature)

[Back To Top](#)

## Order Information

Orderable Part No.	Order	Production Status	Packing	EU RoHS	RoHS-pdf (China-RoHS)	Remark
R5F72167BDFP#V1	<span style="background-color: yellow;">Contact</span>	Mass Production	Tray	Compliant	English	Industrial

[Back To Top](#)

## Package

Package	
Pins	176
Pin pitch	0.5 mm
Package Type	LFQFP
Body Size	24x24 mm <sup>2</sup>
Package drawing	plqp0176kb_a
Mount pad drawing	fig0009e
Mounting height	1.7 mm
Mass	1.8 g
Renesas code	PLQP0176KB-A (old: FP-176EV)
JEITA code	P-LFQFP176-24x24-0.50

[Back To Top](#)

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Microprocessors - MPU category](#):*

*Click to view products by [Renesas manufacturer](#):*

Other Similar products are found below :

[MC68302EH20C](#) [MC7457RX1000LC](#) [MC7457RX1267LC](#) [MC7457VG1267LC](#) [A2C00010998 A](#) [A2C52004004](#) [R5F117BCGNA#20](#)  
[R5F52106BDLA#U0](#) [R5S72690W266BG#U0](#) [ADJ3400IAA5DOE](#) [MPC8245TVV266D](#) [MPC8245TZU300D](#) [MPC8260ACVVMHBB](#)  
[MPC8323ECVRAFDCA](#) [MPC8323VRADDCA](#) [MPC8536ECVJAVLA](#) [BOXNUC5PGYH0AJ](#) [20-668-0024](#) [P1010NSN5DFB](#)  
[P2010NSE2KHC](#) [P2010NSN2MHC](#) [P2020NXE2HHC](#) [P5020NSE7QMB](#) [P5020NSE7TNB](#) [P5020NSE7VNB](#) [LS1020ASN7KQB](#)  
[LS1020AXN7HNB](#) [LS1020AXN7KQB](#) [A2C00010729 A](#) [A2C00039344](#) [T1022NSE7MQB](#) [T1022NXN7PQB](#) [T1023NSE7MQA](#)  
[T1024NXE7PQA](#) [T1042NSE7MQB](#) [T1042NSN7MQB](#) [T1042NXN7WQB](#) [T2080NSE8TTB](#) [T2080NSN8PTB](#) [T2080NXE8TTB](#)  
[T2081NXN8TTB](#) [R5F101AFASP#V0](#) [MC68302CEH20C](#) [TS68040MF33A](#) [MPC8260ACVVMIBB](#) [MPC8280CZUUPEA](#)  
[MPC8313ECVRAFFC](#) [MPC8313ECVRAGDC](#) [MPC8313EVRADDC](#) [MPC8313EVRAFFC](#)