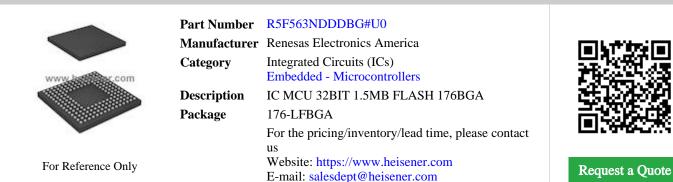


# R5F563NDDDBG#U0

### **R5F563NDDDBG#U0 Information**



### **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



## R5F563NDDDBG#U0 Specifications

Manufacturer Renesas Electronics America   Manufacturers Embedded Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 176-LFBGA   Series RX600   Core Processor RX   Core Size 32-Bit   Speed 100MHz   Connectivity CAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USB   Peripherals DMA, LVD, POR, PWM, WDT   Number of I/O 133   Program Memory Size 1.5MB (1.5M x 8)   EEPROM Size 32K x 8   RAM Size 128K x 8   Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V   Data Converters A/D 8x10b, 21x12b, D/A 2x10b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case 176-LFBGA		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage176-LFBGASeriesRX600Core ProcessorRXCore Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USBPreipheralsDMA, LVD, POR, PWM, WDTNumber of I/O133Program Memory Size1.5MB (1.5M x 8)EEPROM Size2K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersAD8 x10b, 21x12b, D/A 2x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGA (13x13)	Manufacturer Part Number	R5F563NDDDBG#U0
Indext and the second	Manufacturer	Renesas Electronics America
Package176-LFBGASeriesRX600Core ProcessorRXCore Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USBPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O133Program Memory Size1.5MB (1.5M x 8)EEPROM Size32K x 8Notage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VOscillator TypeIternalOperating Temperature.40°C ~ 85°C (TA)Prokage / Case176-LFBGA (13x13)	Category	Integrated Circuits (ICs)
Series RX600   Core Processor RX   Core Size 32-Bit   Speed 100MHz   Connectivity CAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USB   Peripherals DMA, LVD, POR, PWM, WDT   Number of I/O 133   Program Memory Size 1.5MB (1.5M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V   Data Converters A/D 8x10b, 21x12b, D/A 2x10b   Oscillator Type Internal   Operating Temperature -   Package / Case 176-LFBGA (13x13)		Embedded - Microcontrollers
Core ProcessorRXCore Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USBPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O133Program Memory Size1.5MB (1.5M x 8)Program Memory TypeFLASHEEPROM Size32K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type156LFBGA (13x13)	Package	176-LFBGA
Core Size32-BitSpeed100MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USBPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O133Program Memory Size1.5MB (1.5M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltag - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Series	RX600
Speed100MHzConnectivityCAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USBPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O133Program Memory Size1.5MB (1.5M x 8)Program Memory TypeFLASHEEPROM Size32K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Core Processor	RX
Connectivity CAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USB   Peripherals DMA, LVD, POR, PWM, WDT   Number of I/O 133   Program Memory Size 1.5MB (1.5M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V   Data Converters A/D 8x10b, 21x12b, D/A 2x10b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case 176-LFBGA (13x13)	Core Size	32-Bit
Peripherals DMA, LVD, POR, PWM, WDT   Number of I/O 133   Program Memory Size 1.5MB (1.5M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   RAM Size 128K x 8   Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V   Data Converters A/D 8x10b, 21x12b, D/A 2x10b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Package / Case 176-LFBGA (13x13)	Speed	100MHz
Number of I/O 133   Program Memory Size 1.5MB (1.5M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   RAM Size 128K x 8   Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V   Data Converters A/D 8x10b, 21x12b, D/A 2x10b   Oscillator Type Internal   Operating Temperature -40°C ~ 85°C (TA)   Mounting Type -   Package / Case 176-LFBGA (13x13)	Connectivity	CAN, EBI/EMI, Ethernet, I2C, LIN, SCI, SPI, USB
Program Memory Size1.5MB (1.5M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGA (13x13)	Peripherals	DMA, LVD, POR, PWM, WDT
Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGA (13x13)	Number of I/O	133
EEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Program Memory Size	1.5MB (1.5M x 8)
RAM Size128K x 8Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)2.7 V ~ 3.6 VData ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	EEPROM Size	32K x 8
Data ConvertersA/D 8x10b, 21x12b, D/A 2x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	RAM Size	128K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Voltage - Supply (Vcc/Vdd)	2.7 V ~ 3.6 V
Operating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Data Converters	A/D 8x10b, 21x12b, D/A 2x10b
Mounting Type-Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Oscillator Type	Internal
Package / Case176-LFBGASupplier Device Package176-LFBGA (13x13)	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package176-LFBGA (13x13)	Mounting Type	-
	Package / Case	176-LFBGA
Report errors?	Supplier Device Package	176-LFBGA (13x13)
		Report errors?

#### R5F563NDDDBG#U0 Guarantees



Quality Guarantees

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### **R5F563NDDDBG#U0** Payment Methods



If you have any question about R5F563NDDDBG#U0, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com