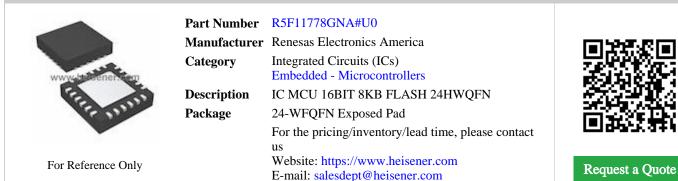


R5F11778GNA#U0

R5F11778GNA#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.



R5F11778GNA#U0 Specifications

Manufacturer Renesas Electronics America Manufacturer Renesas Electronics America Category Integrated Circuits (ICs) Embedded - Microcontrollers Embedded - Microcontrollers Package 24-WFQFN Exposed Pad Series RL78/L1D Core Processor RL78 Core Size 16-Bit Speed 24MHz Connectivity CSI, 12C, UART/USART Peripherals LVD, POR, WDT Number of I/O 15 Program Memory Size 8KB (8K x 8) Program Memory Type FLASH EEPROM Size 2K x 8 RAM Size 768 x 8 Voltage - Supply (Vcc/Vdd) 1.6 V ~ 3.6 V Data Converters A/D 6x8/12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 24-WFQFN Exposed Pad		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage24-WFQFN Exposed PadSeriesRL78/L1DCore ProcessorRL78Core Size16-BitSpeed24MHzConnectivityCSI, 12C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Nutage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-WFQFN Exposed Pad	Manufacturer Part Number	R5F11778GNA#U0
Embedded - MicrocontrollersPackage24-WFQFN Exposed PadSeriesRL78/L1DCore ProcessorRL78Core Size16-BitSpeed24MHzConnectivityCSI, 12C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature440°C ~ 105°C (TA)Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Manufacturer	Renesas Electronics America
Package24-WFQFN Exposed PadSeriesRL78/L1DCore ProcessorRL78Core Size16-BitSpeed24MHzConnecivityCSI, 12C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8Notage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Package / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)	Category	Integrated Circuits (ICs)
SeriesRL78/L1DCore ProcessorRL78Core Size16-BitSpeed24MHzConnectivityCSI, I2C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltag - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-WQFN (4x4)		Embedded - Microcontrollers
Core ProcessorRL78Core Size16-BitSpeed24MHzConnectivityCSI, I2C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Package	24-WFQFN Exposed Pad
Core Size16-BitSpeed24MHzConnectivityCSI, I2C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WYQFN (4x4)	Series	RL78/L1D
Speed24MHzConnectivityCSI, I2C, UART/USARTPeripheralsLVD, POR, WDTNumber of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WKQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Core Processor	RL78
Connectivity CSI, I2C, UART/USART Peripherals LVD, POR, WDT Number of I/O 15 Program Memory Size 8KB (8K x 8) Program Memory Type FLASH EEPROM Size 2K x 8 Voltage - Supply (Vcc/Vdd) 1.6 V ~ 3.6 V Data Converters A/D 6x8/12b Oscillator Type Internal Operating Temperature -40°C ~ 105°C (TA) Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-HWQFN (4x4)	Core Size	16-Bit
Peripherals LVD, POR, WDT Number of I/O 15 Program Memory Size 8KB (8K x 8) Program Memory Type FLASH EEPROM Size 2K x 8 RAM Size 768 x 8 Voltage - Supply (Vcc/Vdd) 1.6 V ~ 3.6 V Data Converters A/D 6x8/12b Operating Temperature -40°C ~ 105°C (TA) Mounting Type - Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-HWQFN (4x4)	Speed	24MHz
Number of I/O15Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Connectivity	CSI, I2C, UART/USART
Program Memory Size8KB (8K x 8)Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Peripherals	LVD, POR, WDT
Program Memory TypeFLASHEEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Number of I/O	15
EEPROM Size2K x 8RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Program Memory Size	8KB (8K x 8)
RAM Size768 x 8Voltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Program Memory Type	FLASH
NoticeVoltage - Supply (Vcc/Vdd)1.6 V ~ 3.6 VData ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	EEPROM Size	2K x 8
Data ConvertersA/D 6x8/12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	RAM Size	768 x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Voltage - Supply (Vcc/Vdd)	1.6 V ~ 3.6 V
Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Data Converters	A/D 6x8/12b
Mounting Type - Package / Case 24-WFQFN Exposed Pad Supplier Device Package 24-HWQFN (4x4)	Oscillator Type	Internal
Package / Case24-WFQFN Exposed PadSupplier Device Package24-HWQFN (4x4)	Operating Temperature	-40°C ~ 105°C (TA)
Supplier Device Package24-HWQFN (4x4)	Mounting Type	-
	Package / Case	24-WFQFN Exposed Pad
Report errors?	Supplier Device Package	24-HWQFN (4x4)
		Report errors?

R5F11778GNA#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.

R5F11778GNA#U0 Payment Methods





If you have any question about R5F11778GNA#U0, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com