



## **DF2212UFP24V Information**



For Reference Only

Part Number DF2212UFP24V

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
Embedded - Microcontrollers

**Description** IC MCU 16BIT 128KB FLASH 64LQFP

Package 64-LQFP

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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## **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.









## **DF2212UFP24V Specifications**

Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         64-LQFP           Series         H8? H8S/2200           Core Processor         H8S/2000           Core Size         16-Bit           Speed         24MHz           Connectivity         SCI, SmartCard, USB           Peripherals         DMA, POR, PWM, WDT           Number of I/O         37           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         12K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 3.6 V           Data Converters         A/D 6x10b           Oscillator Type         External           Operating Temperature         -20°C ~ 75°C (TA)           Mounting Type         -		
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         64-LQFP           Series         H8? H8S/2200           Core Processor         H8S/2000           Core Size         16-Bit           Speed         24MHz           Connectivity         SCI, SmartCard, USB           Peripherals         DMA, POR, PWM, WDT           Number of I/O         37           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         12K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 3.6 V           Data Converters         A/D 6x10b           Oscillator Type         External           Operating Temperature         -20°C ~ 75°C (TA)           Mounting Type         -           Package / Case         64-LQFP           Supplier Device Package         64-LQFP (10x10)	Manufacturer Part Number	DF2212UFP24V
Embedded - Microcontrollers           Package         64-LQFP           Series         H87 H88/2200           Core Processor         H88/2000           Core Size         16-Bit           Speed         24MHz           Connectivity         SCI, SmartCard, USB           Peripherals         DMA, POR, PWM, WDT           Number of I/O         37           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         12K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 3.6 V           Data Converters         A/D 6x10b           Oscillator Type         External           Operating Temperature         -20°C ~ 75°C (TA)           Mounting Type         -           Package / Case         64-LQFP           Supplier Device Package         64-LQFP	Manufacturer	Renesas Electronics America
Package         64-LQFP           Series         H8° H8S/2000           Core Processor         H8S/2000           Core Size         16-Bit           Speed         24MHz           Connectivity         SCI, SmartCard, USB           Peripherals         DMA, POR, PWM, WDT           Number of I/O         37           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         12K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 3.6 V           Data Converters         A/D 6x10b           Oscillator Type         External           Operating Temperature         -20°C ~ 75°C (TA)           Mounting Type         -           Package / Case         64-LQFP           Supplier Device Package         64-LQFP	Category	Integrated Circuits (ICs)
Series       H8? H8S/2200         Core Processor       H8S/2000         Core Size       16-Bit         Speed       24MHz         Connectivity       SCI, SmartCard, USB         Peripherals       DMA, POR, PWM, WDT         Number of I/O       37         Program Memory Size       128KB (128K x 8)         Program Memory Type       FLASH         EEPROM Size       -         RAM Size       12K x 8         Voltage - Supply (Vcc/Vdd)       2.7 V ~ 3.6 V         Data Converters       A/D 6x10b         Oscillator Type       External         Operating Temperature       -20°C ~ 75°C (TA)         Mounting Type       -         Package / Case       64-LQFP         Supplier Device Package       64-LQFP (10x10)		Embedded - Microcontrollers
Core Processor         H8S/2000           Core Size         16-Bit           Speed         24MHz           Connectivity         SCI, SmartCard, USB           Peripherals         DMA, POR, PWM, WDT           Number of I/O         37           Program Memory Size         128KB (128K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         12K x 8           Voltage - Supply (Vcc/Vdd)         2.7 V ~ 3.6 V           Data Converters         A/D 6x10b           Oscillator Type         External           Operating Temperature         -20°C ~ 75°C (TA)           Mounting Type         -           Package / Case         64-LQFP           Supplier Device Package         64-LQFP (10x10)	Package	64-LQFP
Core Size       16-Bit         Speed       24MHz         Connectivity       SCI, SmartCard, USB         Peripherals       DMA, POR, PWM, WDT         Number of I/O       37         Program Memory Size       128KB (128K x 8)         Program Memory Type       FLASH         EEPROM Size       -         RAM Size       12K x 8         Voltage - Supply (Vcc/Vdd)       2.7 V ~ 3.6 V         Data Converters       A/D 6x10b         Oscillator Type       External         Operating Temperature       -20°C ~ 75°C (TA)         Mounting Type       -         Package / Case       64-LQFP         Supplier Device Package       64-LQFP (10x10)	Series	H8? H8S/2200
Speed       24MHz         Connectivity       SCI, SmartCard, USB         Peripherals       DMA, POR, PWM, WDT         Number of I/O       37         Program Memory Size       128KB (128K x 8)         Program Memory Type       FLASH         EEPROM Size       -         RAM Size       12K x 8         Voltage - Supply (Vcc/Vdd)       2.7 V ~ 3.6 V         Data Converters       A/D 6x10b         Oscillator Type       External         Operating Temperature       -20°C ~ 75°C (TA)         Mounting Type       -         Package / Case       64-LQFP         Supplier Device Package       64-LQFP (10x10)	Core Processor	H8S/2000
Connectivity  SCI, SmartCard, USB  Peripherals  DMA, POR, PWM, WDT  Number of I/O  37  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  Voltage - Supply (Vcc/Vdd)  2.7 V ~ 3.6 V  Data Converters  A/D 6x10b  Oscillator Type  External  Operating Temperature  -20°C ~ 75°C (TA)  Mounting Type  Supplier Device Package  64-LQFP  10MA, POR, PWM, WDT  37  A/D 6x 10b  FLASH  EEPROM Size  -  Coverting Temperature  -20°C ~ 75°C (TA)  64-LQFP  64-LQFP (10x10)	Core Size	16-Bit
Peripherals  Number of I/O  37  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  - RAM Size  12K x 8  Voltage - Supply (Vcc/Vdd)  Data Converters  A/D 6x10b  Oscillator Type  External  Operating Temperature  -20°C ~ 75°C (TA)  Mounting Type  - Package / Case  Supplier Device Package  DMA, POR, PWM, WDT  37  BMA, POR, PWM, WDT  37  EXEMBLE SUPPM, WDT  A/D 6x10k  FLASH  ELER SUPPM, WDT  A/D 6x10k  External  -20°C ~ 75°C (TA)  64-LQFP  64-LQFP (10x10)	Speed	24MHz
Number of I/O  Program Memory Size  128KB (128K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  12K x 8  Voltage - Supply (Vcc/Vdd)  2.7 V ~ 3.6 V  Data Converters  A/D 6x10b  Oscillator Type  External  Operating Temperature  -20°C ~ 75°C (TA)  Mounting Type  -  Package / Case  Supplier Device Package  64-LQFP (10x10)	Connectivity	SCI, SmartCard, USB
Program Memory Size Program Memory Type FLASH  EEPROM Size - RAM Size 12K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V  Data Converters A/D 6x10b  Oscillator Type External Operating Temperature -20°C ~ 75°C (TA)  Mounting Type - Package / Case 64-LQFP Supplier Device Package 64-LQFP (10x10)	Peripherals	DMA, POR, PWM, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 12K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V  Data Converters A/D 6x10b  Oscillator Type External  Operating Temperature -20°C ~ 75°C (TA)  Mounting Type -  Package / Case 64-LQFP  Supplier Device Package 64-LQFP (10x10)	Number of I/O	37
EEPROM Size - 12K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V  Data Converters A/D 6x10b  Oscillator Type External  Operating Temperature -20°C ~ 75°C (TA)  Mounting Type  Package / Case 64-LQFP  Supplier Device Package 64-LQFP (10x10)	Program Memory Size	128KB (128K x 8)
RAM Size 12K x 8  Voltage - Supply (Vcc/Vdd) 2.7 V ~ 3.6 V  Data Converters A/D 6x10b  Oscillator Type External  Operating Temperature -20°C ~ 75°C (TA)  Mounting Type -  Package / Case 64-LQFP  Supplier Device Package 64-LQFP (10x10)	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)  2.7 V ~ 3.6 V  A/D 6x10b  Oscillator Type  External  Operating Temperature  -20°C ~ 75°C (TA)  Mounting Type  - Package / Case  64-LQFP  Supplier Device Package  64-LQFP (10x10)	EEPROM Size	-
Data Converters  A/D 6x10b  Oscillator Type  External  Operating Temperature  -20°C ~ 75°C (TA)  Mounting Type  - Package / Case  64-LQFP  Supplier Device Package  64-LQFP (10x10)	RAM Size	12K x 8
Oscillator Type External  Operating Temperature $-20^{\circ}\text{C} \sim 75^{\circ}\text{C}$ (TA)  Mounting Type $-$ Package / Case $64\text{-LQFP}$ Supplier Device Package $64\text{-LQFP}$ $64\text{-LQFP}$ $(10x10)$	Voltage - Supply (Vcc/Vdd)	2.7 V ~ 3.6 V
Operating Temperature -20°C ~ 75°C (TA)  Mounting Type - Package / Case 64-LQFP  Supplier Device Package 64-LQFP (10x10)	Data Converters	A/D 6x10b
Mounting Type - Package / Case 64-LQFP Supplier Device Package 64-LQFP (10x10)	Oscillator Type	External
Package / Case 64-LQFP Supplier Device Package 64-LQFP (10x10)	Operating Temperature	-20°C ~ 75°C (TA)
Supplier Device Package 64-LQFP (10x10)	Mounting Type	-
	Package / Case	64-LQFP
Report errors?	Supplier Device Package	64-LQFP (10x10)
		Report errors?

#### **DF2212UFP24V 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.

# **DF2212UFP24V Payment Methods**



















## **DF2212UFP24V Shipping Methods**













If you have any question about DF2212UFP24V, please do not hesitate to contact us!

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