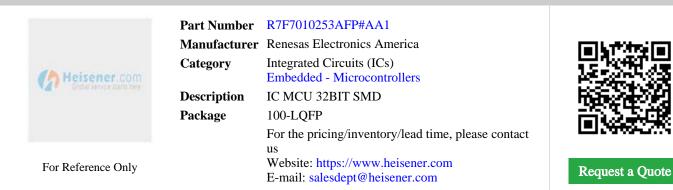


# R7F7010253AFP#AA1

#### R7F7010253AFP#AA1 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.



# R7F7010253AFP#AA1 Specifications

Manufacturer Part Number R7F7010253AFP#AA1   Manufacturer Renesas Electronics America   Category Integrated Circuits (ICs)   Embedded - Microcontrollers Embedded - Microcontrollers   Package 100-LQFP   Series RH850/F1x   Core Processor RH850G3K   Ore Processor 32-Bit   Speed 80MHz   Connectivity CANbus, CSI, PC, LINbus, SPI, UART/USART   Peripherals DMA, PWM, WDT   Number of I/O 81   Program Memory Size 2MB (2M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   RAM Size 128K x 8   Voltage - Supply (Vcc/Vdd) 3V ~ 5.5V   Data Converters AD 20x10b, 16x12b   Oscillator Type Internal   Operating Temperature 40°C ~ 105°C (TA)   Mounting Type Surface Mount   Package / Case 100-LQFP   Surface Mount Surface Mount   Package / Case 100-LQFP (14x14)			
Category   Integrated Circuits (ICs)     Embedded - Microcontrollers     Package   100-LQFP     Series   RH850/F1x     Core Processor   RH850/G3K     Core Size   32-Bit     Speed   80/Hz     Connectivity   CANbus, CSI, PC, LINbus, SPI, UART/USART     Peripherals   DMA, PWM, WDT     Number of I/O   81     Program Memory Size   2MB (2M x 8)     PROM Size   32K x 8     RAM Size   128K x 8     Voltage - Supply (Vcc/Vdd)   3V ~ 5.5V     Data Converters   A/D 20x10b, 16x12b     Operating Temperature   4.0°C ~ 105°C (TA)     Mounting Type   Surface Mount     Program Case   100-LQFP	Manufacturer Part Number	R7F7010253AFP#AA1	
Embedded - MicrocontrollersPackage100-LQFPSeriesRH850/F1xCore ProcessorRH850G3KCore Size32-BitSpeed80MHzConnectivityCANbus, CSI, PC, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)PERPOM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type100-LGFPSupplier Device Package100-LFQFP (14x14)	Manufacturer	Renesas Electronics America	
Package100-LQFPSeriesRH850/F1xCore ProcessorRH850G3KCore Size32-BitSpeed80MHzConnectivityCANbus, CSI, PC, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory SizeDMB (2004 N8)PROM Size32K x 8RAM Size12K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersAD20x10b, 16x12bOperating Temperature4·0°C ~ 105°C (TA)Mounting Type10-LQFP (14x14)	Category	Integrated Circuits (ICs)	
SeriesRH850F1xCore ProcessorRH850G3KCore Size32-BitSpeed80MHzConnectivityCANbus, CSI, PC, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LFQFP (14x14)		Embedded - Microcontrollers	
Core ProcessorRH850G3KCore Size32-BitSpeed80MHzConnectivityCANbus, CSI, PC, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersAD 20x10b, 16x12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Mounting Type100-LFQFP (14x14)	Package	100-LQFP	
Core Size32-BitSpeed80MHzConnectivityCANbus, CSI, PC, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersAnD 20x10b, 16x12bOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Series	RH850/F1x	
Speed80MHzConnectivityCANbus, CSI, IPC, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LGPF (14x14)	Core Processor	RH850G3K	
ProfeConnectivityConnectivityCANbus, CSI, I²C, LINbus, SPI, UART/USARTPeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LFQFP (14x14)	Core Size	32-Bit	
PeripheralsDMA, PWM, WDTNumber of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Speed	80MHz	
Number of I/O81Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Connectivity	CANbus, CSI, I <sup>2</sup> C, LINbus, SPI, UART/USART	
Program Memory Size2MB (2M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Peripherals	DMA, PWM, WDT	
Program Memory TypeFLASHEEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Number of I/O	81	
EEPROM Size32K x 8RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Program Memory Size	2MB (2M x 8)	
RAM Size128K x 8Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)3V ~ 5.5VData ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	EEPROM Size	32K x 8	
Data ConvertersA/D 20x10b, 16x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	RAM Size	128K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Voltage - Supply (Vcc/Vdd)	3V ~ 5.5V	
Operating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Data Converters	A/D 20x10b, 16x12b	
Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Oscillator Type	Internal	
Package / Case100-LQFPSupplier Device Package100-LFQFP (14x14)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package100-LFQFP (14x14)	Mounting Type	Surface Mount	
	Package / Case	100-LQFP	
Report errors?	Supplier Device Package	100-LFQFP (14x14)	
1			Report errors?

#### R7F7010253AFP#AA1 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.

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DISCOVER

#### R7F7010253AFP#AA1 Payment Methods



### R7F7010253AFP#AA1 Shipping Methods



If you have any question about R7F7010253AFP#AA1, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com