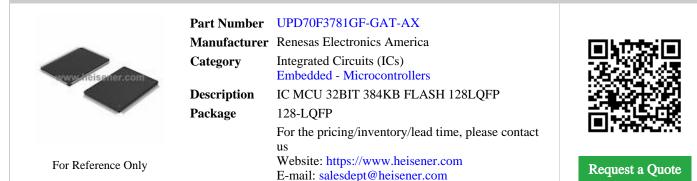


UPD70F3781GF-GAT-AX

UPD70F3781GF-GAT-AX 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.



UPD70F3781GF-GAT-AX Specifications

ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage128-LQFPSeriesV850ES/Jx3-ECore ProcessorV850ESCore Size32-BitSpeed50MHzConnectivityCSI, EBI/EMI, Ethernet, 12C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size-RAM Size-RAM Size24K x 8Voltage - Supply (Vcc/Vdd)285 V ~ 3.6 VOperating Temperature-Operating Temperature-Aufor Construction-Auge - Supply (Vcc/Vdd)285 V ~ 3.6 VData Converters-Aufola - Supply (Vcc/Vdd)-Auge - Supply (Vcc/Vdd)-Aperature - Supply (Vcc/Vdd)-Aperature - Supply (Vcc/Vdd)-Approxement - Supply (Vcc/Vdd)-		
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage128-LQFPSeriesV850ES/Jx3-ECore ProcessorV850ESCore Size32-BitSpeed50MHzConnectivityCSI, EBI/EMI, Ethernet, 12C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size384KB (384K x 8)EEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VDocaitator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Munning Type-Package / Case128-LQFPSupplier Device Package-	Manufacturer Part Number	UPD70F3781GF-GAT-AX
Embedded - Microcontrollers Package 128-LQFP Series V850ES/Jx3-E Core Processor V850ES Core Size 32-Bit Speed 50MHz Connectivity CSI, EBI/EMI, Ethernet, I2C, UART/USART, USB Peripherals DMA, LVD, PWM, WDT Number of I/O 84 Program Memory Size 384KB (384K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 124K x 8 Voltage - Supply (Vcc/Vdd) 2.85 V ~ 3.6 V Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Package / Case 128-LQFP Supplier Device Package -	Manufacturer	Renesas Electronics America
Package128-LQFPSeriesV850ES/J3-ECore ProcessorV850ESCore Size32-BitSpeed32-BitSpeedCOMHzConceivityCSI, EBI/EMI, Ethernet, 12C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory SizeS4KK 0384K x 8)PERPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOperating Temperature-40°C ~ 85°C (TA)Phackage / Case128-LQFPSupplier Device Package-Supplier Device Package-	Category	Integrated Circuits (ICs)
SeriesV850ES/Jx3-ECore ProcessorV850ESCore Size32-BitSpeed50MHzConnectivityCSI, EBI/EMI, Ethernet, I2C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-		Embedded - Microcontrollers
Core ProcessorV850ESCore Size32-BitSpeed50MHzConnectivityCSI, EBI/EMI, Ethernet, I2C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Protage / Case128-LQFPSupplier Device Package-	Package	128-LQFP
Core Size32-BitSpeed50MHzConnectivityCSI, EBI/EMI, Ethernet, I2C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Series	V850ES/Jx3-E
Speed50MHzConnectivityCSI, EBI/EMI, Ethernet, I2C, UART/USART, USBPeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOperating Temperature-40°C ~ 85°C (TA)Package / Case128-LQFPSupplier Device Package-	Core Processor	V850ES
Connectivity CSI, EBI/EMI, Ethernet, I2C, UART/USART, USB Peripherals DMA, LVD, PWM, WDT Number of I/O 84 Program Memory Size 384KB (384K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 124K x 8 Voltage - Supply (Vcc/Vdd) 2.85 V ~ 3.6 V Data Converters A/D 10x10b Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Package / Case 128-LQFP Supplier Device Package -	Core Size	32-Bit
PeripheralsDMA, LVD, PWM, WDTNumber of I/O84Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Speed	50MHz
Number of I/O84Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Connectivity	CSI, EBI/EMI, Ethernet, I2C, UART/USART, USB
Program Memory Size384KB (384K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Peripherals	DMA, LVD, PWM, WDT
Program Memory TypeFLASHEEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Number of I/O	84
EEPROM Size-RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Program Memory Size	384KB (384K x 8)
RAM Size124K x 8Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)2.85 V ~ 3.6 VData ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	EEPROM Size	-
Data ConvertersA/D 10x10bOscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	RAM Size	124K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-Package / Case128-LQFPSupplier Device Package-	Voltage - Supply (Vcc/Vdd)	2.85 V ~ 3.6 V
Operating Temperature -40°C ~ 85°C (TA) Mounting Type - Package / Case 128-LQFP Supplier Device Package -	Data Converters	A/D 10x10b
Mounting Type - Package / Case 128-LQFP Supplier Device Package -	Oscillator Type	Internal
Package / Case 128-LQFP Supplier Device Package -	Operating Temperature	-40°C ~ 85°C (TA)
Supplier Device Package -	Mounting Type	-
	Package / Case	128-LQFP
Report errors?	Supplier Device Package	-
		Report errors

UPD70F3781GF-GAT-AX 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.

UPD70F3781GF-GAT-AX Payment Methods



If you have any question about UPD70F3781GF-GAT-AX, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com