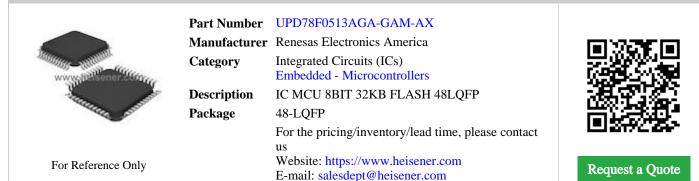


# UPD78F0513AGA-GAM-AX

### UPD78F0513AGA-GAM-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.



## UPD78F0513AGA-GAM-AX Specifications

Manufacturer Part Number	UPD78F0513AGA-GAM-AX
Manufacturer	Renesas Electronics America
Category	Integrated Circuits (ICs)
	Embedded - Microcontrollers
Package	48-LQFP
Series	78K0/Kx2
Core Processor	78K/0
Core Size	8-Bit
Speed	20MHz
Connectivity	3-Wire SIO, I2C, LIN, UART/USART
Peripherals	LVD, POR, PWM, WDT
Number of I/O	41
Program Memory Size	32KB (32K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	1K x 8
Voltage - Supply (Vcc/Vdd)	1.8 V ~ 5.5 V
Data Converters	A/D 8x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 85°C (TA)
Mounting Type	-
Package / Case	48-LQFP
Supplier Device Package	-
	Report errors?

### UPD78F0513AGA-GAM-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.

### UPD78F0513AGA-GAM-AX Payment Methods



If you have any question about UPD78F0513AGA-GAM-AX, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com