

**UPD70F3233M2GK(A1)-GAK-QS-AX Information**


For Reference Only

**Part Number** [UPD70F3233M2GK\(A1\)-GAK-QS-AX](#)  
**Manufacturer** Renesas Electronics America  
**Category** Integrated Circuits (ICs)  
[Embedded - Microcontrollers](#)  
**Description** IC MCU SMD  
**Package** 80-TQFP  
 For the pricing/inventory/lead time, please contact us  
 Website: <https://www.heisener.com>  
 E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)



[Request a Quote](#)

**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.


**UPD70F3233M2GK(A1)-GAK-QS-AX Specifications**

Manufacturer Part Number	<a href="#">UPD70F3233M2GK(A1)-GAK-QS-AX</a>
Manufacturer	Renesas Electronics America
Category	Integrated Circuits (ICs) <a href="#">Embedded - Microcontrollers</a>
Package	80-TQFP
Series	V850ES/Fx2
Core Processor	V850ES
Core Size	32-Bit
Speed	20MHz
Connectivity	CANbus, CSI, I <sup>2</sup> C, UART/USART
Peripherals	LVD, PWM, WDT
Number of I/O	67
Program Memory Size	256KB (256K x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	12K x 8
Voltage - Supply (Vcc/Vdd)	3.5V ~ 5.5V
Data Converters	A/D 12x10b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 110°C (TA)
Mounting Type	Surface Mount
Package / Case	80-TQFP
Supplier Device Package	80-TFQFP (12x12)

[Report errors?](#)

## UPD70F3233M2GK(A1)-GAK-QS-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.

## UPD70F3233M2GK(A1)-GAK-QS-AX Payment Methods



## UPD70F3233M2GK(A1)-GAK-QS-AX Shipping Methods



If you have any question about UPD70F3233M2GK(A1)-GAK-QS-AX, please do not hesitate to contact us!

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E-mail: [salesdept@heisener.com](mailto:salesdept@heisener.com)