

**UPD78F1022GA-HAA-AX Information**


For Reference Only

**Part Number** [UPD78F1022GA-HAA-AX](#)  
**Manufacturer** Renesas Electronics America  
**Category** Integrated Circuits (ICs)  
[Embedded - Microcontrollers](#)  
**Description** IC MCU 16BIT 64KB FLASH 48TQFP  
**Package** 48-LQFP  
 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.


**UPD78F1022GA-HAA-AX Specifications**

|                            |  |
|----------------------------|--|
| Manufacturer Part Number   | <a href="#">UPD78F1022GA-HAA-AX</a>                                      |
| Manufacturer               | Renesas Electronics America  |
| Category                   | Integrated Circuits (ICs)<br><a href="#">Embedded - Microcontrollers</a> |
| Package                    | 48-LQFP  |
| Series                     | 78K0R/Kx3-L (USB)  |
| Core Processor             | 78K/0R   |
| Core Size                  | 16-Bit   |
| Speed                      | 20MHz  |
| Connectivity               | CSI, I2C, LIN, UART/USART, USB   |
| Peripherals                | DMA, LVD, POR, PWM, WDT  |
| Number of I/O              | 30   |
| Program Memory Size        | 64KB (64K x 8)   |
| Program Memory Type        | FLASH  |
| EEPROM Size                | -  |
| RAM Size                   | 6K x 8   |
| Voltage - Supply (Vcc/Vdd) | 1.8 V ~ 3.6 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    | -  |

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## UPD78F1022GA-HAA-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.

## UPD78F1022GA-HAA-AX Payment Methods



## UPD78F1022GA-HAA-AX Shipping Methods



If you have any question about UPD78F1022GA-HAA-AX, please do not hesitate to contact us!

Website: <https://www.heisener.com>

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