

Renesas Electronics America

## UPD78F1003GA-HAA-AX

Part Number:	UPD78F1003GA-HAA-AX
Manufacturer/Brand:	Renesas Electronics America
Product description:	IC MCU 16BIT 64KB FLASH 48TQFP
Datasheets:	<a href="#">PDF</a> UPD78F1003GA-HAA-AX.pdf
RoHS Status:	Lead free / RoHS Compliant
Ship From:	Hong Kong
Shipment Way:	DHL/Fedex/TNT/UPS/EMS

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Image may be representation. See specifications for product details.

### Specifications of UPD78F1003GA-HAA-AX

PART NUMBER	UPD78F1003GA-HAA-AX
MANUFACTURER	Renesas Electronics America
DESCRIPTION	IC MCU 16BIT 64KB FLASH 48TQFP
LEAD FREE STATUS / ROHS STATUS	Lead free / RoHS Compliant
DATA SHEET	<a href="#">PDF</a> UPD78F1003GA-HAA-AX.pdf
VOLTAGE - SUPPLY (VCC/VDD)	1.8 V ~ 5.5 V
SPEED	20MHz
SERIES	78K0R/Kx3-L
RAM SIZE	3K x 8
PROGRAM MEMORY TYPE	FLASH
PROGRAM MEMORY SIZE	64KB (64K x 8)
PERIPHERALS	DMA, LVD, POR, PWM, WDT
PACKAGING	Tray
PACKAGE / CASE	48-TQFP
OSCILLATOR TYPE	Internal
OPERATING TEMPERATURE	-40°C ~ 85°C (TA)
NUMBER OF I/O	36
MOISTURE SENSITIVITY LEVEL (MSL)	3 (168 Hours)
LEAD FREE STATUS / ROHS STATUS	Lead free / RoHS Compliant
EEPROM SIZE	-
DETAILED DESCRIPTION	78K/0R 78K0R/Kx3-L Microcontroller IC 16-Bit 20MHz 64KB (64K x 8) FLASH
DATA CONVERTERS	A/D 10x10b
CORE SIZE	16-Bit
CORE PROCESSOR	78K/0R
CONNECTIVITY	3-Wire SIO, I <sup>2</sup> C, LINbus, UART/USART

### Related Tags

Renesas Electronics America UPD78F1003GA-HAA-AX	UPD78F1003GA-HAA-AX Distributor	UPD78F1003GA-HAA-AX Supplier
UPD78F1003GA-HAA-AX Price	UPD78F1003GA-HAA-AX Pictures	UPD78F1003GA-HAA-AX Image
UPD78F1003GA-HAA-AX PDF Datasheet	UPD78F1003GA-HAA-AX Download Datasheet	UPD78F1003GA-HAA-AX Datasheet
UPD78F1003GA-HAA-AX Stock	Buy UPD78F1003GA-HAA-AX	Buy Renesas Electronics America UPD78F1003GA-HAA-AX
Renesas Electronics America UPD78F1003GA-HAA-AX	Renesas Electronics America Supplier	Renesas Electronics America Distributor
Renesas Electronics America UPD78F1003GA-HAA-AX	Renesas Technology Corp UPD78F1003GA-HAA-AX	Renesas UPD78F1003GA-HAA-AX

### Related Products

<p><b>UPD78F1006GB-GAG-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 64KB FLASH 52LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>	<p><b>UPD78F1004GB-GAG-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 32KB FLASH 52LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>
<p><b>UPD78F1007F1-AN1-A</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 32KB FLASH 64BGA                  In stock: Out stock  <a href="#">RFQ</a></p>	<p><b>UPD78F1007GA-HAB-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 32KB FLASH 64TQFP                  In stock: Out stock  <a href="#">RFQ</a></p>
<p><b>UPD78F1002GB-GAF-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 48KB FLASH 44LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>	<p><b>UPD78F1002GA-HAA-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 48KB FLASH 48TQFP                  In stock: Out stock  <a href="#">RFQ</a></p>
<p><b>UPD78F0884GA(A2)-GAM-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 8BIT 32KB FLASH 48LFQFP                  In stock: Out stock  <a href="#">RFQ</a></p>	<p><b>UPD78F1000GB-GAF-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 16KB FLASH 44LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>
<p><b>UPD78F1001GB-GAF-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 32KB FLASH 44LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>	<p><b>UPD78F1001GA-HAA-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 32KB FLASH 48TQFP                  In stock: Out stock  <a href="#">RFQ</a></p>
<p><b>UPD78F1005GB-GAG-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 48KB FLASH 52LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>	<p><b>UPD78F1003GB-GAF-AX</b>                  Manufacturers: Renesas Electronics America                  Description: IC MCU 16BIT 64KB FLASH 44LQFP                  In stock: Out stock  <a href="#">RFQ</a></p>