

M451RG6AE

t a Quote

M451RG6AE Information

	Part Number	M451RG6AF	
Winterner.com		Nuvoton Technology Corporation of America	
	Category	Integrated Circuits (ICs) Embedded - Microcontrollers	
	Description	MICROCONTROLLER ARM CORTEX	- S3.50
	Package	64-LQFP	
		For the pricing/inventory/lead time, please contact us	11 87
For Reference Only		Website: https://www.heisener.com E-mail: salesdept@heisener.com	Request

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.



M451RG6AE Specifications

ManufacturerNuvoton Technology Corporation of AmericaCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage64-LQFPSeriesNuMicro™ M451Core ProcessorARM@ Cortex@-M4FCore Size32-BitSpeed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Pergram Memory TypeFLASHEEPROM Size-Nuface - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)			
Integrated Circuits (ICs) Embedded - Microntrollers Package 64-LQFP Series NuMicro TM M451 Core Processor ARM® Cortex®-M4F Core Size 32-Bit Speed 72MHz Connectivity EBI/EMI, PC, IrDA, LINbus, SmartCard, SPI, UART/USART Peripherals Brown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDT Number of I/O 53 Program Memory Size 256KB (256K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 32K x 8 Voltage - Supply (Vcc/Vdd) 2,5V ~ 5.5V Data Converters A/D 12x12b Operating Temperature -40°C ~ 105°C (TA) Mounting Type Surface Mount Package / Case 64-LQFP Supplier Device Package 64-LQFP (10x10)	Manufacturer Part Number	M451RG6AE	
Imbedded - MicrocontrollersPackage 64 -LQFPSeriesNuMicroTM M451Core ProcessorARM® Cortex®-M4FCore Size 32 -BitSpeed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTNumber of I/O 53 Program Memory Size $256KB (256K x 8)$ Program Memory TypeFLASHEEPROM Size-RAM Size $32K x 8$ Voltage - Supply (Vcc/Vdd) $2.5V \sim 5.5V$ Data Converters $A/D 12x12b$ Oscillator TypeInternalOperating Temperature $-40^{\circ}C \sim 105^{\circ}C (TA)$ Mounting TypeSurface MountPackage / Case 64 -LQFP (10x10)	Manufacturer	Nuvoton Technology Corporation of America	
Package64-LQFPSeriesNuMicro™ M451Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP	Category	Integrated Circuits (ICs)	
SeriesNuMicro TM M451Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, I'S, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP (10x10)		Embedded - Microcontrollers	
ARM® Cortex®-M4FCore Size32-BitSpeed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTSumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP (10x10)	Package	64-LQFP	
Core Size32-BitSpeed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Series	NuMicro™ M451	
Speed72MHzConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP (10x10)	Core Processor	ARM® Cortex®-M4F	
ConnectivityEBI/EMI, PC, IrDA, LINbus, SmartCard, SPI,UART/USARTPeripheralsBrown-out Detect/Reset, DMA, PS, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Core Size	32-Bit	
PeripheralsBrown-out Detect/Reset, DMA, I2S, LVD, LVR, POR, PWM, WDTNumber of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP (10x10)	Speed	72MHz	
Number of I/O53Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Connectivity	EBI/EMI, I ² C, IrDA, LINbus, SmartCard, SPI,UART/USART	
Program Memory Size256KB (256K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Peripherals	Brown-out Detect/Reset, DMA, I2S, LVD, LVR, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP (10x10)	Number of I/O	53	
EEPROM Size-RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFP (10x10)	Program Memory Size	256KB (256K x 8)	
RAM Size32K x 8Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)2.5V ~ 5.5VData ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	EEPROM Size	-	
Data ConvertersA/D 12x12bOscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	RAM Size	32K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Voltage - Supply (Vcc/Vdd)	2.5V ~ 5.5V	
Operating Temperature-40°C ~ 105°C (TA)Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Data Converters	A/D 12x12b	
Mounting TypeSurface MountPackage / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Oscillator Type	Internal	
Package / Case64-LQFPSupplier Device Package64-LQFP (10x10)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package64-LQFP (10x10)	Mounting Type	Surface Mount	
	Package / Case	64-LQFP	
Report errors?	Supplier Device Package	64-LQFP (10x10)	
			Report errors?

M451RG6AE 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 EUARANTEE

Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

M451RG6AE Payment Methods



M451RG6AE Shipping Methods



If you have any question about M451RG6AE, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com