



# N78E059AFG Information

Heisener.com

Part Number N78E059AFG

Manufacturer Nuvoton Technology Corporation of America

Category Integrated Circuits (ICs)

Embedded - Microcontrollers

**Description** IC MCU 8BIT 32KB FLASH 44QFP

Package 44-BQFF

For the pricing/inventory/lead time, please contact

us

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E-mail: salesdept@heisener.com



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# N78E059AFG Specifications

Manufacturer Part Number         N78E059AFG           Manufacturer         Nuvoton Technology Corporation of America           Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         44-BQFP           Series         N78           Core Processor         8051           Core Size         8-Bit           Speed         40MHz           Connectivity         EBI/EMI, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, LVD, POR, PWM, WDT           Number of I/O         36           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1.25K x 8           Voltage - Supply (Vcc/Vdd)         2.4 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -	*	
Category         Integrated Circuits (ICs)           Embedded - Microcontrollers           Package         44-BQFP           Series         N78           Core Processor         8051           Core Size         8-Bit           Speed         40MHz           Connectivity         EBI/EMI, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, LVD, POR, PWM, WDT           Number of I/O         36           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1.25K x 8           Voltage - Supply (Vcc/Vdd)         2.4 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -	Manufacturer Part Number	N78E059AFG
Embedded - Microcontrollers           Package         44-BQFP           Series         N78           Core Processor         8051           Core Size         8-Bit           Speed         40MHz           Connectivity         EBI/EMI, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, LVD, POR, PWM, WDT           Number of I/O         36           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1.25K x 8           Voltage - Supply (Vcc/Vdd)         2.4 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -	Manufacturer	Nuvoton Technology Corporation of America
Package         44-BQFP           Series         N78           Core Processor         8051           Core Size         8-Bit           Speed         40MHz           Connectivity         EBI/EMI, SPI, UART/USART           Peripherals         Brown-out Detect/Reset, LVD, POR, PWM, WDT           Number of I/O         36           Program Memory Size         32KB (32K x 8)           Program Memory Type         FLASH           EEPROM Size         -           RAM Size         1.25K x 8           Voltage - Supply (Vcc/Vdd)         2.4 V ~ 5.5 V           Data Converters         -           Oscillator Type         Internal           Operating Temperature         -40°C ~ 85°C (TA)           Mounting Type         -	Category	Integrated Circuits (ICs)
SeriesN78Core Processor $8051$ Core Size $8-Bit$ Speed $40MHz$ Connectivity $EBI/EMI$ , SPI, UART/USARTPeripherals $Brown-out$ Detect/Reset, LVD, POR, PWM, WDTNumber of I/O $36$ Program Memory Size $32KB$ ( $32K \times 8$ )Program Memory Type $FLASH$ $EEPROM Size$ -RAM Size $1.25K \times 8$ Voltage - Supply (Vcc/Vdd) $2.4 \text{ V} \sim 5.5 \text{ V}$ Data Converters-Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting Type-		Embedded - Microcontrollers
Core Processor8051Core Size8-BitSpeed40MHzConnectivityEBI/EMI, SPI, UART/USARTPeripheralsBrown-out Detect/Reset, LVD, POR, PWM, WDTNumber of I/O36Program Memory Size32KB (32K x 8)Program Memory TypeFLASHEEPROM Size-RAM Size1.25K x 8Voltage - Supply (Vcc/Vdd)2.4 V ~ 5.5 VData Converters-Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	Package	44-BQFP
Core Size 8-Bit  Speed 40MHz  Connectivity EBI/EMI, SPI, UART/USART  Peripherals Brown-out Detect/Reset, LVD, POR, PWM, WDT  Number of I/O 36  Program Memory Size 32KB (32K x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 1.25K x 8  Voltage - Supply (Vcc/Vdd) 2.4 V ~ 5.5 V  Data Converters -  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Series	N78
Speed 40MHz Connectivity EBI/EMI, SPI, UART/USART Peripherals Brown-out Detect/Reset, LVD, POR, PWM, WDT Number of I/O 36 Program Memory Size 32KB (32K x 8) Program Memory Type FLASH EEPROM Size - RAM Size 1.25K x 8 Voltage - Supply (Vcc/Vdd) 2.4 V ~ 5.5 V Data Converters - Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type -	Core Processor	8051
Connectivity  Peripherals  Brown-out Detect/Reset, LVD, POR, PWM, WDT  Number of I/O  36  Program Memory Size  32KB (32K x 8)  Program Memory Type  FLASH  EEPROM Size  RAM Size  1.25K x 8  Voltage - Supply (Vcc/Vdd)  2.4 V ~ 5.5 V  Data Converters  Oscillator Type  Internal  Operating Temperature  Mounting Type  -  EBI/EMI, SPI, UART/USART  Brown-out Detect/Reset, LVD, POR, PWM, WDT  36  24 V ~ 85°C (TA)  Mounting Type  -  EBI/EMI, SPI, UART/USART  Brown-out Detect/Reset, LVD, POR, PWM, WDT  36  36  24 V ~ 5.5 V  The service of the service	Core Size	8-Bit
Peripherals  Brown-out Detect/Reset, LVD, POR, PWM, WDT  Number of I/O  36  Program Memory Size  32KB (32K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  1.25K x 8  Voltage - Supply (Vcc/Vdd)  2.4 V ~ 5.5 V  Data Converters  - Oscillator Type  Internal  Operating Temperature  40°C ~ 85°C (TA)  Mounting Type  -	Speed	40MHz
Number of I/O  36  Program Memory Size  32KB (32K x 8)  Program Memory Type  FLASH  EEPROM Size  -  RAM Size  1.25K x 8  Voltage - Supply (Vcc/Vdd)  2.4 V ~ 5.5 V  Data Converters  - Oscillator Type  Internal  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  -	Connectivity	EBI/EMI, SPI, UART/USART
Program Memory Size 32KB (32K x 8)  Program Memory Type FLASH  EEPROM Size -  RAM Size 1.25K x 8  Voltage - Supply (Vcc/Vdd) 2.4 V ~ 5.5 V  Data Converters -  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Peripherals	Brown-out Detect/Reset, LVD, POR, PWM, WDT
Program Memory Type FLASH  EEPROM Size -  RAM Size 1.25K x 8  Voltage - Supply (Vcc/Vdd) 2.4 V ~ 5.5 V  Data Converters -  Oscillator Type Internal  Operating Temperature -40°C ~ 85°C (TA)  Mounting Type -	Number of I/O	36
EEPROM Size-RAM Size $1.25 \text{K x 8}$ Voltage - Supply (Vcc/Vdd) $2.4 \text{ V} \sim 5.5 \text{ V}$ Data Converters-Oscillator TypeInternalOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (TA)Mounting Type-	Program Memory Size	32KB (32K x 8)
RAM Size $1.25 \text{K x 8}$ Voltage - Supply (Vcc/Vdd) $2.4 \text{ V} \sim 5.5 \text{ V}$ Data Converters $-$ Oscillator Type $Internal$ Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C (TA)}$ Mounting Type $-$	Program Memory Type	FLASH
Voltage - Supply (Vcc/Vdd)2.4 V ~ 5.5 VData Converters-Oscillator TypeInternalOperating Temperature-40°C ~ 85°C (TA)Mounting Type-	EEPROM Size	-
Data Converters - Oscillator Type Internal Operating Temperature -40°C ~ 85°C (TA) Mounting Type -	RAM Size	1.25K x 8
Oscillator Type Internal $ -40^{\circ}\text{C} \sim 85^{\circ}\text{C (TA)} $ Mounting Type $ -40^{\circ}\text{C} \sim 85^{\circ}\text{C (TA)} $	Voltage - Supply (Vcc/Vdd)	2.4 V ~ 5.5 V
Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$ Mounting Type $-40^{\circ}\text{C} \sim 85^{\circ}\text{C} \text{ (TA)}$	Data Converters	-
Mounting Type -	Oscillator Type	Internal
	Operating Temperature	-40°C ~ 85°C (TA)
D 1 / C	Mounting Type	-
Package / Case 44-BQFP	Package / Case	44-BQFP
Supplier Device Package -	Supplier Device Package	-
Report errors?		Report errors?

#### N78E059AFG 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.

### N78E059AFG Payment Methods



















## **N78E059AFG Shipping Methods**













If you have any question about N78E059AFG, please do not hesitate to contact us!

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