

# MB90352ESPMC-GS-191E1

## MB90352ESPMC-GS-191E1 Information

www.novener.com	 MB90352ESPMC-GS-191E1 Cypress Semiconductor Corp Integrated Circuits (ICs) Embedded - Microcontrollers IC MCU 16BIT 128KB MROM 64LQFP 64-LQFP For the pricing/inventory/lead time, please contact	
For Reference Only	us Website: https://www.heisener.com E-mail: 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.



# MB90352ESPMC-GS-191E1 Specifications

ManufacturerCypress Semiconductor CorpCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage64-LQFPSeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, 12C, LIN, UART/USARTPorpheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersAnD 15x8/10bOperating Temperature440°c ~ 125°C (TA)Mounting Type-Package / Case64-LQFP		
Category Integrated Circuits (ICs)   Embedded - Microcontrollers   Package 64-LQFP   Series F2MC-16LX MB90350E   Core Processor F2MC-16LX   Core Size 16-Bit   Speed 24MHz   Connectivity CAN, EBI/EMI, 12C, LIN, UART/USART   Peripherals DMA, LVD, POR, WDT   Number of I/O 51   Program Memory Size 128KB (128K x 8)   Program Memory Type Mask ROM   EEPROM Size -   RAM Size 4K x 8   Voltage - Supply (Vcc/Vdd) 3.5 V ~ 5.5 V   Data Converters A/D 15x8/10b   Operating Temperature -40°C ~ 125°C (TA)   Mounting Type -   Package / Case 64-LQFP   Supplier Device Package 64-LQFP	Manufacturer Part Number	MB90352ESPMC-GS-191E1
Embedded - MicrocontrollersPackage64-LQFPSeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, 12C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Package / Case64-LQFPSupplier Device Package64-LQFP	Manufacturer	Cypress Semiconductor Corp
Package64-LQFPSeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, 12C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-Nutage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Category	Integrated Circuits (ICs)
SeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)		Embedded - Microcontrollers
Core ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, 12C, LIN, UART/USARTPoripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-Prokage / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Package	64-LQFP
Core Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersAnd 15x8/10bOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Series	F2MC-16LX MB90350E
Speed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP (12x12)	Core Processor	F2MC-16LX
Connectivity CAN, EBI/EMI, I2C, LIN, UART/USART   Peripherals DMA, LVD, POR, WDT   Number of I/O 51   Program Memory Size 128KB (128K x 8)   Program Memory Type Mask ROM   EEPROM Size -   RAM Size 4K x 8   Voltage - Supply (Vcc/Vdd) 3.5 V ~ 5.5 V   Data Converters A/D 15x8/10b   Oscillator Type Internal   Operating Temperature -40°C ~ 125°C (TA)   Mounting Type -   Package / Case 64-LQFP (12x12)	Core Size	16-Bit
Peripherals DMA, LVD, POR, WDT   Number of I/O 51   Program Memory Size 128KB (128K x 8)   Program Memory Type Mask ROM   EEPROM Size -   RAM Size 4K x 8   Voltage - Supply (Vcc/Vdd) 3.5 V ~ 5.5 V   Data Converters A/D 15x8/10b   Operating Temperature -40°C ~ 125°C (TA)   Mounting Type -   Package / Case 64-LQFP (12x12)	Speed	24MHz
Number of I/O51Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP (12x12)	Connectivity	CAN, EBI/EMI, I2C, LIN, UART/USART
Program Memory Size128KB (128K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP (12x12)	Peripherals	DMA, LVD, POR, WDT
Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP (12x12)	Number of I/O	51
EEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Program Memory Size	128KB (128K x 8)
RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Program Memory Type	Mask ROM
Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	EEPROM Size	-
Data ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	RAM Size	4K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Voltage - Supply (Vcc/Vdd)	3.5 V ~ 5.5 V
Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Data Converters	A/D 15x8/10b
Mounting Type-Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Oscillator Type	Internal
Package / Case64-LQFPSupplier Device Package64-LQFP (12x12)	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package64-LQFP (12x12)	Mounting Type	-
	Package / Case	64-LQFP
Report errors?	Supplier Device Package	64-LQFP (12x12)
		Report errors?

### MB90352ESPMC-GS-191E1 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.

#### MB90352ESPMC-GS-191E1 Payment Methods



If you have any question about MB90352ESPMC-GS-191E1, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com