

# MB90351ESPMC-GS-215E1

### MB90351ESPMC-GS-215E1 Information



# **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.



# MB90351ESPMC-GS-215E1 Specifications

ManufacturerCypress Semiconductor CorpCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage64-LQFPSeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPorpheralsDMA, LVD, POR, WDTNumber of JO51Program Memory Type64KB (64K x 8)EEPROM Size-RAM SizeJS \< 5.5 \Voltage - Supply (Vcc/Vdd)3.5 \< 5.5 \Dotat ConvertersAnd IstanianOperating Temperature440° c -125°C (TA)Mounting Type-Package / Case64LQFP		
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 64KB (64K x 8)   PPROM Size -   RAM Size 4K x 8   Voltage - Supply (Vcc/Vdd) 3.5 V ~ 5.5 V   Data Converters A/D 15x8/10b   Operating Temperature 440°C ~ 125°C (TA)   Mounting Type -   Package / Case 64-LQFP	Manufacturer Part Number	MB90351ESPMC-GS-215E1
Embedded - MicrocontrollersPackage64-LQFPSeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size64KB (64K x 8)PERPOM 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	Manufacturer	Cypress Semiconductor Corp
Package64-LQFPSeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size64KB (64K 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-Package / Case64-LQFP	Category	Integrated Circuits (ICs)
SeriesF2MC-16LX MB90350ECore ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size64KB (64K 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-LQFP		Embedded - Microcontrollers
Core ProcessorF2MC-16LXCore Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size64KB (64K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size35 V ~ 5.5 VVoltage - Supply (Vcc/Vdd)S15 V ~ 5.5 VData ConvertersAnol 15x8/10bOperating Temperature-40°C ~ 125°C (TA)Mounting Type-41QFPPackage / Case64LQFP	Package	64-LQFP
Core Size16-BitSpeed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size64KB (64K 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 Type64 LQFP	Series	F2MC-16LX MB90350E
Speed24MHzConnectivityCAN, EBI/EMI, I2C, LIN, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O51Program Memory Size64KB (64K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vdd)3.5 V ~ 5.5 VData ConvertersInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type64-LQFP	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 64KB (64K 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 -   Operating Temperature -40°C ~ 125°C (TA)   Mounting Type -   Package / Case 64-LQFP	Core Size	16-Bit
Peripherals DMA, LVD, POR, WDT   Number of I/O 51   Program Memory Size 64KB (64K 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)   Package / Case 64-LQFP	Speed	24MHz
Number of I/O51Program Memory Size64KB (64K 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-LQFP	Connectivity	CAN, EBI/EMI, I2C, LIN, UART/USART
Program Memory Size64KB (64K x 8)Program Memory TypeMask ROMEEPROM Size-RAM Size4K x 8Voltage - Supply (Vcc/Vd)3.5 V ~ 5.5 VData ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP	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	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-LQFP	Program Memory Size	64KB (64K 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-LQFP	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-LQFP	EEPROM Size	-
Data ConvertersA/D 15x8/10bOscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP	RAM Size	4K x 8
Oscillator TypeInternalOperating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP	Voltage - Supply (Vcc/Vdd)	3.5 V ~ 5.5 V
Operating Temperature-40°C ~ 125°C (TA)Mounting Type-Package / Case64-LQFP	Data Converters	A/D 15x8/10b
Mounting Type-Package / Case64-LQFP	Oscillator Type	Internal
Package / Case 64-LQFP	Operating Temperature	-40°C ~ 125°C (TA)
-	Mounting Type	-
Sumplier Device Deckage (4 LOED (12)12)	Package / Case	64-LQFP
Supplier Device Fackage 04-LQFF (12X12)	Supplier Device Package	64-LQFP (12x12)
Report errors?		Report errors?

## MB90351ESPMC-GS-215E1 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.

#### MB90351ESPMC-GS-215E1 Payment Methods



If you have any question about MB90351ESPMC-GS-215E1, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com