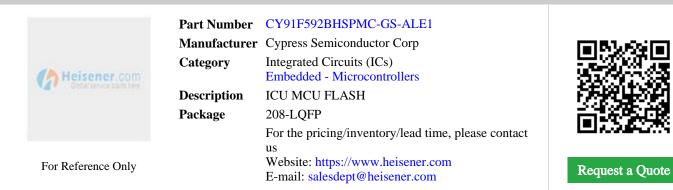


# CY91F592BHSPMC-GS-ALE1

#### CY91F592BHSPMC-GS-ALE1 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.



### CY91F592BHSPMC-GS-ALE1 Specifications

ManufacturerCypress Semiconductor CorpCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage208-LQFPSeriesFR MB91590Core ProcessorFR81SCore Size32-BitSpeed80MHzConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTDeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8Nufze2.7V ~ 5.5VData ConvertersA/D 3228/10bOscillator Type-Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFPSupplier Device Package208-LQFP			
CategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage $208$ -LQFPSeriesFR MB91590Core ProcessorFR81SCore Size $32$ -BitSpeed $80MHz$ ConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O $156$ Program Memory Size $576KB$ ( $576K x 8$ )Program Memory TypeFLASHEEPROM Size $64K x 8$ RAM Size $848K x 8$ Voltage - Supply (Vcc/Vdd) $2.7V \sim 5.5V$ Data Converters $A/D 32x8/10b$ Oscillator TypeExternalOperating Temperature $-40^{\circ}C \sim 105^{\circ}C$ (TA)Mounting Type-Package / Case $208-LQFP$ ( $28x28$ )	Manufacturer Part Number	CY91F592BHSPMC-GS-ALE1	
Embedded - MicrocontrollersPackage208-LQFPSeriesFR MB91590Core ProcessorFR81SCore Size32-BitSpeed800HzConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Manufacturer	Cypress Semiconductor Corp	
Package208-LQFPSeriesFR MB91590Core ProcessorFR81SCore Size32-BitSpeed80MHzConnetivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature40°C ~ 105°C (TA)Package / Case208-LQFP (28x28)	Category	Integrated Circuits (ICs)	
SeriesFR MB91590Core ProcessorFR81SCore Size32-BitSpeed80MHzConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Package / Case208-LQFP (28x28)		Embedded - Microcontrollers	
Core ProcessorFR81SCore Size32-BitSpeed80MHzConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-Package / Case208-LQFP (28x28)	Package	208-LQFP	
Core Size32-BitSpeed80MHzConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8RAM Size848K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFP (28x28)	Series	FR MB91590	
Speed80MHzConnectivityCANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USARTPeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOperating Temperature-40°C ~ 105°C (TA)Mounting Type.Package / Case208-LQFP (28x28)	Core Processor	FR81S	
Connectivity CANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USART   Peripherals DMA, LVD, POR, PWM, WDT   Number of I/O 156   Program Memory Size 576KB (576K x 8)   Program Memory Type FLASH   EEPROM Size 64K x 8   RAM Size 848K x 8   Voltage - Supply (Vcc/Vdd) 2.7V ~ 5.5V   Data Converters A/D 32x8/10b   Oscillator Type External   Operating Temperature -40°C ~ 105°C (TA)   Mounting Type -   Package / Case 208-LQFP (28x28)	Core Size	32-Bit	
PeripheralsDMA, LVD, POR, PWM, WDTNumber of I/O156Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8RAM Size848K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Speed	80MHz	
Number of I/O 156   Program Memory Size 576KB (576K x 8)   Program Memory Type FLASH   EEPROM Size 64K x 8   RAM Size 848K x 8   Voltage - Supply (Vcc/Vdd) 2.7V ~ 5.5V   Data Converters A/D 32x8/10b   Oscillator Type External   Operating Temperature -40°C ~ 105°C (TA)   Mounting Type -   Package / Case 208-LQFP (28x28)	Connectivity	CANbus, CSIO, EBI/EMI, LINbus, SPI, UART/USART	
Program Memory Size576KB (576K x 8)Program Memory TypeFLASHEEPROM Size64K x 8RAM Size848K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFP (28x28)	Peripherals	DMA, LVD, POR, PWM, WDT	
Program Memory TypeFLASHEEPROM Size64K x 8RAM Size848K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Number of I/O	156	
EEPROM Size64K x 8RAM Size848K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Program Memory Size	576KB (576K x 8)	
RAM Size848K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)2.7V ~ 5.5VData ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	EEPROM Size	64K x 8	
Data ConvertersA/D 32x8/10bOscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	RAM Size	848K x 8	
Oscillator TypeExternalOperating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Voltage - Supply (Vcc/Vdd)	2.7V ~ 5.5V	
Operating Temperature-40°C ~ 105°C (TA)Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Data Converters	A/D 32x8/10b	
Mounting Type-Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Oscillator Type	External	
Package / Case208-LQFPSupplier Device Package208-LQFP (28x28)	Operating Temperature	-40°C ~ 105°C (TA)	
Supplier Device Package208-LQFP (28x28)	Mounting Type	-	
	Package / Case	208-LQFP	
Report errors?	Supplier Device Package	208-LQFP (28x28)	
			Report errors?

## CY91F592BHSPMC-GS-ALE1 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.



If you have any question about CY91F592BHSPMC-GS-ALE1, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com