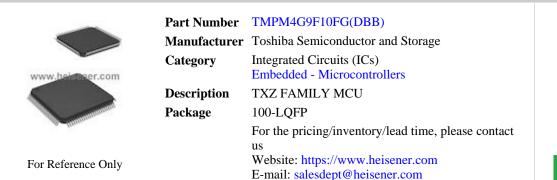


# TMPM4G9F10FG(DBB)

# TMPM4G9F10FG(DBB) Information





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**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.



# TMPM4G9F10FG(DBB) Specifications

ManufacturerToshiba Semiconductor and StorageCategoryIntegrated Circuits (ICs)Embedded - MicrocontrollersPackage100-LQFPSeries-Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed160MHzConnectivityCEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory Size1MB (IM x 8)EEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersAD 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP			
Category Integrated Circuits (ICs)   Embedded - Microcontrollers   Package 100-LQFP   Series -   Core Processor ARM® Cortex®-M4F   Core Size 32-Bit   Speed 160MHz   Connectivity CEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USART   Peripherals DMA, LVD, POR, WDT   Number of I/O 150   Program Memory Size IMB (IM x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   Nulage - Supply (Vcc/Vdd) 2.7V ~ 3.6V   Data Converters A/D 24x12b; D/A 2x8b   Oscillator Type Internal   Operating Temperature -40°C ~ 70°C (TA)   Mounting Type Surface Mount   Package / Case 100-LQFP (14x14)	Manufacturer Part Number	TMPM4G9F10FG(DBB)	
Embedded - MicrocontrollersPackage100-LQFPSeries-Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed160MHzConnectivityCEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Package / Case100-LQFP (14x14)	Manufacturer	Toshiba Semiconductor and Storage	
Package 100-LQFP   Series -   Core Processor ARM® Cortex®-M4F   Core Size 32-Bit   Speed 160MHz   Connectivity CEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USART   Peripherals DMA, LVD, POR, WDT   Number of I/O 150   Program Memory Size IMB (1M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   RAM Size 192K x 8   Voltage - Supply (Vcc/Vdd) 2.7V ~ 3.6V   Derating Temperature -40°C ~ 70°C (TA)   Mounting Type Surface Mount   Package / Case 100-LQFP (14x14)	Category	Integrated Circuits (ICs)	
Series-Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed160MHzConnectivityCEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature4.0°C ~ 70°C (TA)Package / Case100-LQFP (14x14)		Embedded - Microcontrollers	
Core ProcessorARM® Cortex®-M4FCore Size32-BitSpeed160MHzConnectivityCEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8Voltag - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOperating Temperature40°C ~ 70°C (TA)Prackage / Case100-LQFP (14x14)	Package	100-LQFP	
Core Size32-BitSpeed160MHzConnectivityCEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature40°C ~ 70°C (TA)Package / Case100-LQFP (14x14)	Series	-	
Speed160MHzConnectivityCEC, EBI/EMI, PC, IrDA, SIO, SPI, SMIF, UART/USARTPeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature4.0°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Core Processor	ARM® Cortex®-M4F	
Connectivity CEC, EBI/EMI, IPC, IrDA, SIO, SPI, SMIF, UART/USART   Peripherals DMA, LVD, POR, WDT   Number of I/O 150   Program Memory Size IMB (1M x 8)   Program Memory Type FLASH   EEPROM Size 32K x 8   RAM Size 192K x 8   Voltage - Supply (Vcc/Vdd) 2.7V ~ 3.6V   Data Converters A/D 24x12b; D/A 2x8b   Oscillator Type Internal   Operating Temperature 40°C ~ 70°C (TA)   Mounting Type Surface Mount   Package / Case 100-LQFP (14x14)	Core Size	32-Bit	
PeripheralsDMA, LVD, POR, WDTNumber of I/O150Program Memory Size1MB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Speed	160MHz	
Number of I/O150Program Memory Size1MB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Connectivity	CEC, EBI/EMI, I2C, IrDA, SIO, SPI, SMIF, UART/USART	
Program Memory SizeIMB (1M x 8)Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Peripherals	DMA, LVD, POR, WDT	
Program Memory TypeFLASHEEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Number of I/O	150	
EEPROM Size32K x 8RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFP (14x14)	Program Memory Size	1MB (1M x 8)	
RAM Size192K x 8Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Program Memory Type	FLASH	
Voltage - Supply (Vcc/Vdd)2.7V ~ 3.6VData ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	EEPROM Size	32K x 8	
Data ConvertersA/D 24x12b; D/A 2x8bOscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	RAM Size	192K x 8	
Oscillator TypeInternalOperating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Voltage - Supply (Vcc/Vdd)	2.7V ~ 3.6V	
Operating Temperature-40°C ~ 70°C (TA)Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Data Converters	A/D 24x12b; D/A 2x8b	
Mounting TypeSurface MountPackage / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Oscillator Type	Internal	
Package / Case100-LQFPSupplier Device Package100-LQFP (14x14)	Operating Temperature	-40°C ~ 70°C (TA)	
Supplier Device Package100-LQFP (14x14)	Mounting Type	Surface Mount	
	Package / Case	100-LQFP	
Report errors?	Supplier Device Package	100-LQFP (14x14)	
			Report errors?

# TMPM4G9F10FG(DBB) 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.

## TMPM4G9F10FG(DBB) Payment Methods



If you have any question about TMPM4G9F10FG(DBB), please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com