



# MCF5251VM140

Manufacturer Part Number	<b>MCF5251VM140</b>
Manufacturer	<b>Freescale Semiconductor, Inc. (NXP Semiconductors)</b>
Allelco Part Number	32D-MCF5251VM140
ECAD Model	Request Free CAD Models
Parts Description	IC MCU 32BIT ROMLESS 225MAPBGA
Package	225-LFBGA
Data sheet	<b>MCF5251 Datasheet.pdf</b>

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## Specifications

MCF5251VM140 Tech Specifications  
MCF5251VM140 - Freescale Semiconductor technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Freescale Semiconductor, Inc. (NXP Semiconductors)	Package	Bulk
Voltage - Supply (Vcc/Vdd)	1.08V ~ 3.6V	Oscillator Type	External
Supplier Device Package	225-MAPBGA (13x13)	Operating Temperature	-20°C ~ 70°C (TA)
Speed	140MHz	Mounting Type	Surface Mount
Series	MCF525x	EEPROM Size	-
RAM Size	128K x 8	Data Converters	A/D 6x12b
Program Memory Type	ROMless	Core Size	32-Bit Single-Core
Program Memory Size	-	Core Processor	Coldfire V2
Peripherals	DMA	Connectivity	ATA, Audio, CANbus, EBI/EMI, I <sup>2</sup> C, IDE, SD, SPI, UART/USART, USB OTG
Package / Case	225-LFBGA	Base Product Number	MCF5251

## Parts with Similar Specifications

The three parts on the right have similar specifications to Freescale Semiconductor MCF5251VM140

Product Attribute				
Part Number	MCF5251VM140	MCF5249LCAG120	MCF5271CAB100	MCF5251CVM140
Manufacturer	Freescale Semiconductor	NXP USA Inc.	Freescale Semiconductor	NXP USA Inc.
Series	MCF525x	MCF524x	MCF527x	MCF525x
Operating Temperature	-20°C ~ 70°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Program Memory Type	ROMless	ROMless	ROMless	ROMless
Connectivity	ATA, Audio, CANbus, EBI/EMI, I <sup>2</sup> C, IDE, SD, SPI, UART/USART, USB OTG	I <sup>2</sup> C, IDE, Memory Card, SPI, UART/USART	EBI/EMI, Ethernet, I <sup>2</sup> C, SPI, UART/USART	ATA, Audio, CANbus, EBI/EMI, I <sup>2</sup> C, IDE, SD, SPI, UART/USART, USB OTG
Speed	140MHz	120MHz	100MHz	140MHz
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Voltage - Supply (Vcc/Vdd)	1.08V ~ 3.6V	3V ~ 3.6V	1.4V ~ 3.6V	1.08V ~ 3.6V
EEPROM Size	-	-	-	-
Package	Bulk	Tray	Tray	Tray
Base Product Number	MCF5251	MCF5249	MCF5271	MCF5251
Peripherals	DMA	DMA, I <sup>2</sup> S, POR, Serial Audio, WDT	DMA, WDT	DMA
Package / Case	225-LFBGA	144-LQFP	160-BQFP	225-LFBGA
Core Processor	Coldfire V2	Coldfire V2	Coldfire V2	Coldfire V2
Supplier Device Package	225-MAPBGA (13x13)	144-LQFP (20x20)	160-QFP (28x28)	225-MAPBGA (13x13)
Oscillator Type	External	External	External	External
Program Memory Size	-	-	-	-
Core Size	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core	32-Bit Single-Core
RAM Size	128K x 8	96K x 8	64K x 8	128K x 8
Data Converters	A/D 6x12b	A/D 4x12b	-	A/D 6x12b

## MCF5251VM140 Datasheet PDF

Download MCF5251VM140 pdf datasheets and Freescale Semiconductor documentation for MCF5251VM140 - Freescale Semiconductor.



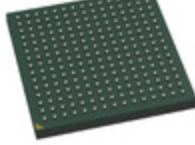



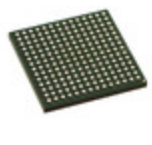
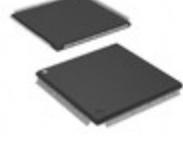
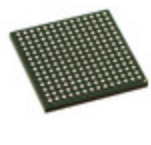
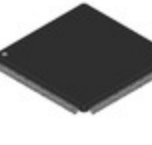
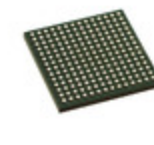
### Datasheets

MCF5251 Datasheet.pdf

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### Recommended Products



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## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

### Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

Common Countries Logistic Time Reference		
Region	Country	Logistic Time(Day)
America	United States	5
	Brazil	7
Europe	Germany	5
	United Kingdom	4
	Italy	5
Oceania	Australia	6
	New Zealand	7
Asia	India	6
	Japan	7
Middle East	Israel	6

DHL & FedEx Shipment Charges Reference	
Shipment charges(KG)	Reference DHL(USD\$)
0.00kg-1.00kg	USD\$60.00
1.00kg-2.00kg	USD\$70.00
2.00kg-3.00kg	USD\$80.00

**Note:** The above table is for reference only. There may have some data bias for the uncontrollable factors.

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