

Image may be representation.  
See specifications for product details.



## MVF51NN151CMK50

Manufacturer Part Number **MVF51NN151CMK50**

Manufacturer **NXP Semiconductors**

Allelco Part Number **32D-MVF51NN151CMK50**

ECAD Model [Request Free CAD Models](#)

Parts Description **IC MCU 32BIT ROMLESS 364MAPBGA**

Package **364-LFBGA**

Data sheet **[F Series Vybrid Ref Manual.pdf](#)**

**[VF6xx,VF5xx,VF3xx Datasheet.pdf](#)**

RoHs Status **ROHS3 Compliant**

**Get a Quote**

MVF51NN151CMK50 - NXP USA Inc..New Original in Stock. Download Linear Technology MVF51NN151CMK50 datasheet/specifications on AllelcoElec.com.  
Request a quote for MVF51NN151CMK50, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

MVF51NN151CMK50 Tech Specifications  
MVF51NN151CMK50 - NXP USA Inc. technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	NXP Semiconductors	Operating Temperature	-40°C ~ 85°C (TA)
Voltage - I/O	3.3V	Number of Cores/Bus Width	1 Core, 32-Bit
USB	USB 2.0 OTG + PHY (1)	Mounting Type	Surface Mount
Supplier Device Package	364-LFBGA (17x17)	Graphics Acceleration	Yes
Speed	500MHz	Ethernet	10/100Mbps (2)
Series	Vybrid, VF5xx	Display & Interface Controllers	DCU, GPU, LCD, VideoADC, VIU
Security Features	-	Core Processor	ARM® Cortex®-A5
SATA	-	Co-Processors/DSP	Multimedia; NEON™ MPE
RAM Controllers	LPDDR2, DDR3, DRAM	Base Product Number	MVF51
Package / Case	364-LFBGA	Additional Interfaces	CAN, I²C, IrDA, LIN, SCI, SDHC, SPI, UART/USART
Package	Tray		

### Parts with Similar Specifications

The three parts on the right have similar specifications to NXP USA Inc. MVF51NN151CMK50

Product Attribute				
Part Number	MVF51NN151CMK50	<a href="#">MVF60NN152CMK40</a>	<a href="#">MVF51NS151CMK50</a>	<a href="#">MVF60NS151CMK50</a>
Manufacturer	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.	NXP USA Inc.
Display & Interface Controllers	DCU, GPU, LCD, VideoADC, VIU	DCU, GPU, LCD, VideoADC, VIU	DCU, GPU, LCD, VideoADC, VIU	DCU, GPU, LCD, VideoADC, VIU
Supplier Device Package	364-LFBGA (17x17)	364-LFBGA (17x17)	364-LFBGA (17x17)	364-LFBGA (17x17)
Ethernet	10/100Mbps (2)	10/100Mbps (2)	10/100Mbps (2)	10/100Mbps (2)
Package / Case	364-LFBGA	364-LFBGA	364-LFBGA	364-LFBGA
Voltage - I/O	3.3V	3.3V	3.3V	3.3V
Core Processor	ARM® Cortex®-A5	ARM® Cortex®-A5 + Cortex®-M4	ARM® Cortex®-A5	ARM® Cortex®-A5 + Cortex®-M4
USB	USB 2.0 OTG + PHY (1)	USB 2.0 OTG + PHY (1)	USB 2.0 OTG + PHY (1)	USB 2.0 OTG + PHY (1)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package	Tray	Tray	Tray	Tray
Additional Interfaces	CAN, I²C, IrDA, LIN, SCI, SDHC, SPI, UART/USART	CAN, I²C, IrDA, LIN, SCI, SDHC, SPI, UART/USART	CAN, I²C, IrDA, LIN, SCI, SDHC, SPI, UART/USART	CAN, I²C, IrDA, LIN, SCI, SDHC, SPI, UART/USART
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Co-Processors/DSP	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE	Multimedia; NEON™ MPE
Speed	500MHz	400MHz, 167MHz	500MHz	500MHz, 167MHz
Graphics Acceleration	Yes	Yes	Yes	Yes
SATA	-	-	-	-
Security Features	-	-	ARM TZ, CAAM, HAB, RTIC, Secure JTAG, SNVS, Tamper, TZ ASC, TZ WDOG	ARM TZ, CAAM, HAB, RTIC, Secure JTAG, SNVS, Tamper, TZ ASC, TZ WDOG
RAM Controllers	LPDDR2, DDR3, DRAM	LPDDR2, DDR3, DRAM	LPDDR2, DDR3, DRAM	LPDDR2, DDR3, DRAM
Number of Cores/Bus Width	1 Core, 32-Bit	2 Core, 32-Bit	1 Core, 32-Bit	2 Core, 32-Bit
Series	Vybrid, VF5xx	Vybrid, VF6xx	Vybrid, VF5xx	Vybrid, VF6xx
Base Product Number	MVF51	MVF60	MVF51	MVF60

### MVF51NN151CMK50 Datasheet PDF

Download MVF51NN151CMK50 pdf datasheets and NXP USA Inc. documentation for MVF51NN151CMK50 - NXP USA Inc..


#### Datasheets

[F Series Vybrid Ref Manual.pdf](#)

[VF6xx,VF5xx,VF3xx Datasheet.pdf](#)

#### Environmental Information

 NXP USA Inc REACH.pdf

 NXP USA Inc RoHS Cert.pdf

### PCN Packaging

 Mult Dev Pkg Seal 15/Dec/2020.pdf

 Tray Attributes 29/Sep/2021.pdf

### PCN Assembly/Origin

 2.73KHz.pdf

### PCN Design/Specification

 Mult Dev 25/May/2020.pdf

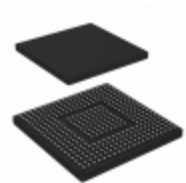
 Trace Marking Removal 20/Jun/2019.pdf

### PCN Part Status Change

 VFYYY 27/Jun/2016.pdf

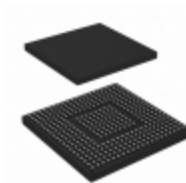
## Customers Also Interested in

### Recommended Products



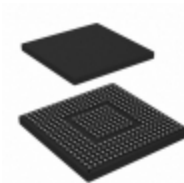
#### MVF60NN152CMK40

NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



#### MVF51NS151CMK50

NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



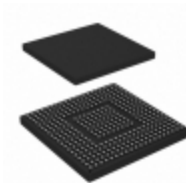
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NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



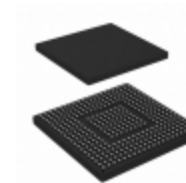
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Freescle Semiconductor  
VYBRID F 32-BIT MPU, ARM  
CORTEX-



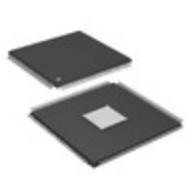
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NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



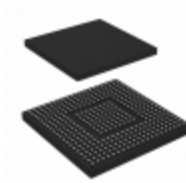
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NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



#### MVF30NN151CKU26

NXP USA Inc.  
IC MCU 32BIT ROMLESS 176LQFP



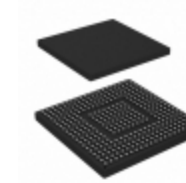
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NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



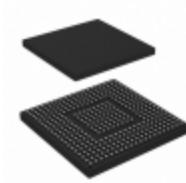
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Freescle Semiconductor  
VYBRID F 32-BIT MPU, ARM  
CORTEX-



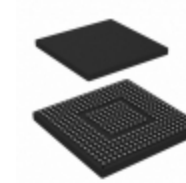
#### MVF50NN152CMK40

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IC MCU 32BIT ROMLESS 364MAPBGA



#### MVF50NN151CMK50

NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



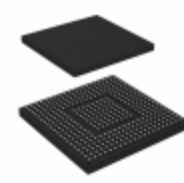
#### MVF50NN151CMK40

Freescle Semiconductor  
VYBRID F 32-BIT MPU, ARM  
CORTEX-



#### MVF60NS151CMK50

Freescle Semiconductor  
VYBRID F 32-BIT MPU, ARM  
CORTEX-



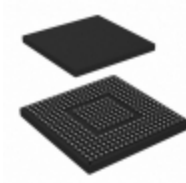
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NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



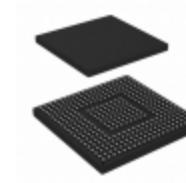
#### MVF002A

MVF



#### MVF60NN152CMK50

NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA



#### MVF50NN151CMK40

NXP USA Inc.  
IC MCU 32BIT ROMLESS 364MAPBGA

## 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.

Contact us if you have any questions.

### Payment Support

The payment method can be chosen from the methods shown below:  
Wire Transfer (T/T, Bank Transfer), Western Union, Credit card,  
PayPal.



### Your Faithful Supply Chain Partner -



Efficient Supply  
Management



Cost-Saving  
Procurement



Fast Sourcing &  
Delivery

Contact us if you have any questions.



Phone

+00852 9146 4856



Email

info@allelco.com

### Certifications & Memberships



View More

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