# DSP56321VL240

Data Sheet

24-BIT Digital Signal Processor PBFREE

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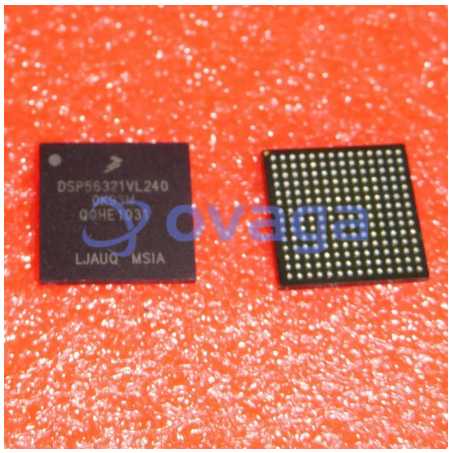
|---|---|
| Manufacturers | NXP Semiconductor |
| Package/Case | 196-BGA |
| Product Type | Embedded Processors & Controllers |
| RoHS | Rohs |
| Lifecycle | |




Images are for reference only

Please submit RFQ for DSP56321VL240 or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFQ

## General Description

The DSP56321VL240 is a digital signal processor (DSP) manufactured by NXP Semiconductors (formerly Freescale Semiconductor).

## Features

It has a 24-bit fixed-point DSP architecture.

The core operates at a clock speed of up to 240 MHz.

It has a 64 KB on-chip program RAM and a 16 KB on-chip data RAM.

It has a large set of digital signal processing functions, including multiply-accumulate (MAC), circular addressing, and bit manipulation.

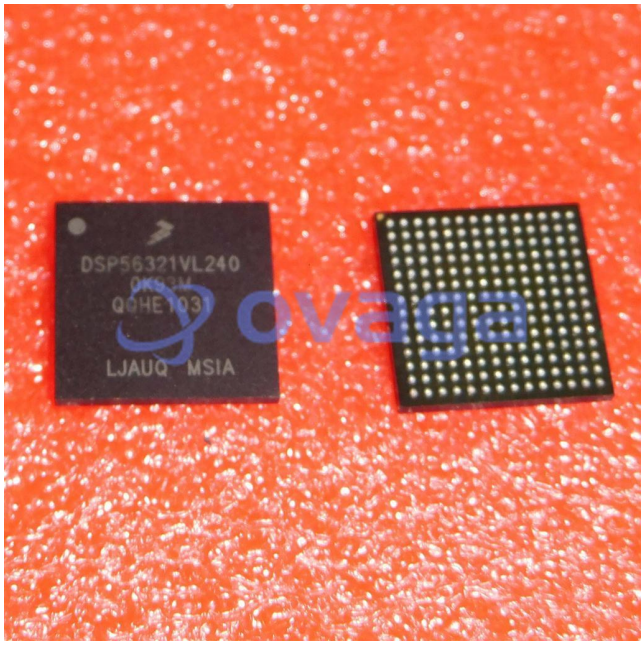
It also features a flexible memory system, multiple communication interfaces, and an interrupt controller.

## Application

It is commonly used in audio and video processing applications such as digital audio mixing, filtering, and equalization, and video compression and decompression.

It is also used in communication systems for functions such as echo cancellation, speech recognition, and modulation/demodulation.

It can be found in industrial control systems for real-time control and monitoring, as well as in automotive applications for engine management and in-vehicle entertainment systems.




**Related Products**

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NXP Semiconductor

BGA-196

[DSP56F827FG80E](#)

NXP Semiconductor

LQFP-128

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TQFP-208