

24 BIT Digital Signal Processor PBFREE

Manufacturers	<a href="#">NXP Semiconductor</a>
Package/Case	BGA-196
Product Type	Embedded Processors & Controllers
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for DSP56311VL150R2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

DSP56311VL150R2 is a digital signal processor (DSP) manufactured by NXP Semiconductors (formerly Freescale Semiconductor). This particular DSP belongs to the DSP563xx family, which is based on a 24-bit fixed-point architecture and is designed for real-time signal processing applications.

### Features

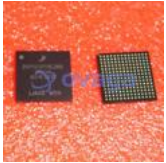
- Clock frequency of up to 150 MHz
- 24-bit fixed-point architecture
- Dual MAC (multiply-accumulate) units
- 8-channel DMA controller
- 16-bit host interface
- On-chip SRAM and ROM

### Application

- Audio processing
- Video processing
- Image processing
- Motor control
- Industrial control systems
- Telecommunications
- Automotive applications



## Related Products



### [DSP56321VL240](#)

NXP Semiconductor  
196-BGA



### [DSP56F827FG80E](#)

NXP Semiconductor  
LQFP-128



### [DSP56F807PY80E](#)

NXP Semiconductor  
LQFP-160



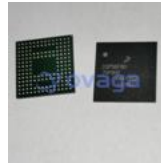
### [DSP56F801FA80E](#)

NXP Semiconductor  
LQFP-48



### [DSP56311VL150](#)

NXP Semiconductor  
BGA-196



### [DSP56F807VF80E](#)

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MAPBGA-160



### [DSP56F805FV80E](#)

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LQFP-144



### [DSP56F801FA60E](#)

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LQFP-48