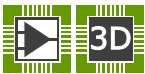






# H3LIS331DL

Manufacturer Part Number	<b>H3LIS331DL</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-H3LIS331DL
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	ACCEL 100-400G I2C/SPI 16TFLGA
Package	16-VFLGA
Data sheet	<b><a href="#">H3LIS331DL Datasheet.pdf</a></b>
RoHs Status	 ROHS3 Compliant



Get a Quote

H3LIS331DL - STMicroelectronics.New Original in Stock. Download Linear Technology H3LIS331DL datasheet/specifications on AllelcoElec.com.  
Request a quote for H3LIS331DL, please send us email: [info@allelco.com](mailto:info@allelco.com)


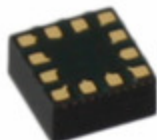

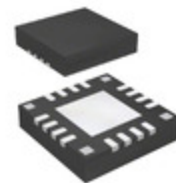
## Specifications

H3LIS331DL Tech Specifications  
H3LIS331DL - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Output Type	I <sup>2</sup> C, SPI
Voltage - Supply	2.16V ~ 3.6V	Operating Temperature	-40°C ~ 85°C (TA)
Type	Digital	Mounting Type	Surface Mount
Supplier Device Package	16-TFLGA (3x3)	Features	Selectable Scale
Series	ECOPACK®	Base Product Number	H3LIS331
Sensitivity (mV/g)	-	Bandwidth	25Hz ~ 500Hz
Sensitivity (LSB/g)	20 (±100g) ~ 5 (±400g)	Axis	X, Y, Z
Package / Case	16-VFLGA	Acceleration Range	±100g, ±200g, ±400g
Package	Tray		

## Parts with Similar Specifications


The three parts on the right have similar specifications to STMicroelectronics H3LIS331DL

Product Attribute	 NO PICTURE			
Part Number	H3LIS331DL	<b>BMA222</b>	<b>MMA3201KEG</b>	<b>MMA6555KWR2</b>
Manufacturer	STMicroelectronics	Bosch Sensortec	NXP USA Inc.	NXP USA Inc.
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Output Type	I <sup>2</sup> C, SPI	I <sup>2</sup> C, SPI	Analog Voltage	SPI
Package / Case	16-VFLGA	12-VFLGA	20-SOIC (0.295", 7.50mm Width)	16-QFN Exposed Pad
Sensitivity (LSB/g)	20 (±100g) ~ 5 (±400g)	64 (±2g) ~ 8 (±16g)	-	18.2
Sensitivity (mV/g)	-	-	50	-
Package	Tray	Tape & Reel (TR)	Tube	Tape & Reel (TR)
Bandwidth	25Hz ~ 500Hz	8Hz ~ 1kHz	400Hz	-
Axis	X, Y, Z	X, Y, Z	X, Y	X
Series	ECOPACK®	-	Automotive, AEC-Q100, MMA	Automotive, AEC-Q100
Voltage - Supply	2.16V ~ 3.6V	1.62V ~ 3.6V	4.75V ~ 5.25V	3.135V ~ 5.25V
Base Product Number	H3LIS331	-	MMA32	MMA65
Features	Selectable Scale	Adjustable Bandwidth, Selectable Low Pass Filter, Selectable Scale, Sleep Mode, Temperature Sensor	-	Selectable Low Pass Filter
Type	Digital	Digital	Analog	Digital
Operating Temperature	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)	-40°C ~ 125°C (TA)	-40°C ~ 105°C (TA)
Supplier Device Package	16-TFLGA (3x3)	12-LGA (2x2)	20-SOIC	16-QFN (6x6)
Acceleration Range	±100g, ±200g, ±400g	±2g, 4g, 8g, 16g	±45g	±105g

## H3LIS331DL Datasheet PDF

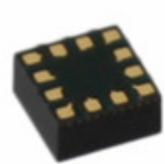
Download H3LIS331DL pdf datasheets and STMicroelectronics documentation for H3LIS331DL - STMicroelectronics.

### HTML Datasheet


[H3LIS331DL Datasheet.pdf](#)

## Customers Also Interested in

### Recommended Products



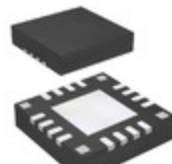
**BMA222**

Bosch Sensortec  
ACCEL 2-16G I2C/SPI 12LGA



**MMA3201KEG**

NXP USA Inc.  
ACCELEROMETER 45G ANALOG  
20SOIC



**MMA6555KWR2**

NXP USA Inc.  
ACCELEROMETER 105G SPI 16QFN



**ADXL202AQC**

Analog Devices Inc.  
DUAL-AXIS IMEMS ACCELEROMETER



**MMA1270KEG**

NXP USA Inc.  
ACCELEROMETER 2.5G ANALOG  
16SOIC



**BMA280**

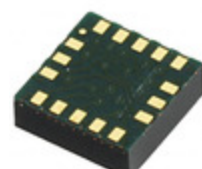
Bosch Sensortec  
ACCEL 2-16G I2C/SPI 12LGA

**BMA423**

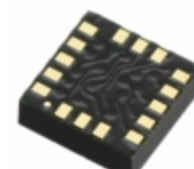
Bosch Sensortec  
ACCEL 2-16G I2C/SPI 12LGA

**H3LIS100DLTR**

STMicroelectronics  
ACCELEROMETER 100G I2C/SPI 16LGA

**H3LIS331DLTR**

STMicroelectronics  
ACCEL 100-400G I2C/SPI 16TFLGA

**LIS331DLFTR**

STMicroelectronics  
ACCELEROMETER 2-8G I2C/SPI 16LGA

**MMA9555LR1**

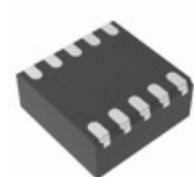
NXP USA Inc.  
ACCELEROMETER 2-8G I2C/SPI 16LGA

**MMA2202EG**

NXP USA Inc.  
ACCEL 56.3G ANALOG 16SOIC

**ADXL356BEZ-RL7**

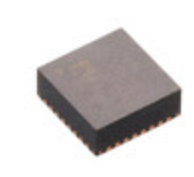
Analog Devices Inc.  
ACCEL 10-20G ANALOG 14CLCC

**FXLS8962AFR1**

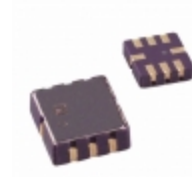
NXP USA Inc.  
ACCELEROMETER 2-16G 10DFN

**ADXL001-250BEZ**

Analog Devices Inc.  
ACCELEROMETER 250G ANALOG 8LCC

**ADXL1005BCPZ**

Analog Devices Inc.  
ACCELEROMETER ANALOG 32LFCSP

**AD22279-A-R2**

Analog Devices Inc.  
ACCELEROMETER 35G ANALOG 8CLCC

**BMA220**

Bosch Sensortec  
ACCEL 2-16G I2C/SPI 12LGA

## 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.



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