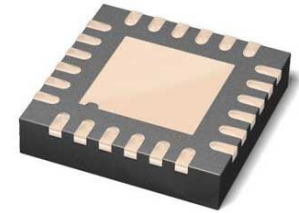



Accelerometer Triple $\pm 6g/\pm 12g/\pm 24g$ 3.3V Automotive 24-Pin QFN EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer:	STMicroelectronics, Inc
Package/Case:	QFN-24
Product Type:	Sensors, Transducers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active

General Description

The AIS3624DQ is an ultra-low-power high-performance three-axis accelerometer with a digital serial interface SPI standard output, an I2C compatible interface is also available.

The device features ultra-low-power operational modes that allow advanced power saving and smart sleep-to-wake functions.

The AIS3624DQ has dynamically user selectable full scales of $\pm 6g/\pm 12g/\pm 24g$ and it is capable of measuring accelerations with output data rates from 0.5 Hz to 1 kHz.

The self-test capability allows the user to check the functioning of the sensor in the final application.

The device may be configured to generate an interrupt signal by inertial wakeup/free-fall events as well as by the position of the device itself. Thresholds and timing of interrupt generators are programmable by the end user on the fly.

The AIS3624DQ is available in small, quad flat no-lead package (QFN) with the reduced 4x4 mm footprint required by many applications and it is guaranteed to operate over an extended temperature range from $-40\text{ }^{\circ}\text{C}$ to $+105\text{ }^{\circ}\text{C}$.

This product may be used in a variety of automotive non-safety applications such as motion-activated functions, telematic boxes, impact recognition and logging systems, and vibration monitoring and compensation.

Key Features

Wide supply voltage range: 2.4 V to 3.6 V

1.8 V low voltage compatible IOs

Ultra-low-power mode consumption down to 10 μA

SPI/I2C digital output interface

16-bit data output, 12-bit resolution

2 independent programmable interrupt generators

Recommended For You

AIS328DQTR

STMicroelectronics, Inc

QFN24

AIS2120SXTR

STMicroelectronics, Inc

SOP8

AIS2IHTR

STMicroelectronics, Inc

SMD

AIS2DW12TR

STMicroelectronics, Inc

LGA12

AIS1200PSTR

STMicroelectronics, Inc

SOP16

ASMB30LHHTR

STMicroelectronics, Inc

LGA14

ASMB30LHHXTR

STMicroelectronics, Inc

N

A3G4250D

STMicroelectronics, Inc

LGA16

A3G4250DTR

STMicroelectronics, Inc

LGA16