freescale
semiconductor

Freescale - RD3924MMA8450Q - RD3924MMA8450Q Development Kit

Product Overview:

The development kit RD3924MMA8450Q provides an evaluation board for the Freescale MMA8450Q 3-axis high performance, high functionality low-g accelerometer. The development kit RD3924MMA8450Q comes with the LFSTBEB8450 and the LFSTBUSB boards together for evaluating all of the embedded MMA8450 functionality. The GUI Software is available for download to use with the RD3924MMA8450Q (or separately purchased LFSTBEB8450 and LFSTBUSB).

Kit Contents:

The development kit RD3924MMA8450Q contents are:

- MMA8450 Development Board
- LFSTBUSB Communications Board
- USB Cable and quick start guide

Key Features:

The RD3924MMA8450Q kit has the following product features:

- The kit comes with the GUI software providing real time data and demonstration of the latest embedded accelerometer features such as the High Pass Filter, 32 data point FIFO buffer, enhanced Orientation (Portrait/Landscape) detection.
- LFSTBEB8450 board includes an 8-bit MC9S08QE8CWL MCU for data acquisition.

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
RD3924MMA8450Q	Freescale	1796119	64R7495

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
MMA8450QR1	Freescale	12-bit Digital Accelerometer	NA	65R1277
MC9S08QE8CWL	Freescale	8-Bit Microcontroller IC	1561389	69M3834

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
LFSTBEB8450	Freescale	MMA8450Q Accelerometer Evaluation Board	MMA8450Q	1796118	64R6755
RD3803MMA7660	Freescale	MMA7660FC Accelerometer Evaluation Board	MMA7660FC	1738821	08R2491
RD3965MMA7660	Freescale	MMA7660FC ZSTAR Demo Kit	MMA7660FC	NA	68R9959

Document List:

Datasheets:

Part Number	Description	Size
MMA8450QR1	12-bit Digital Accelerometer	654KB
MC9S08QE8CWL	8-Bit Microcontroller IC	1.2MB

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Application Notes:

File Name	Size
[Low Power Modes and Auto-Wake/Sleep Using the MMA8450Q](#)	273KB
[Data Manipulation and Basic Settings of the MMA8450Q with Driver Code](#)	449KB
[Motion and Freefall Detection Using the MMA8450Q](#)	300KB

Hardware & Software:

File Name	Size
[Sensor Toolbox Software](#)	15MB