HTT7103

12 bit, ultra-low power 3 axis accelerometer

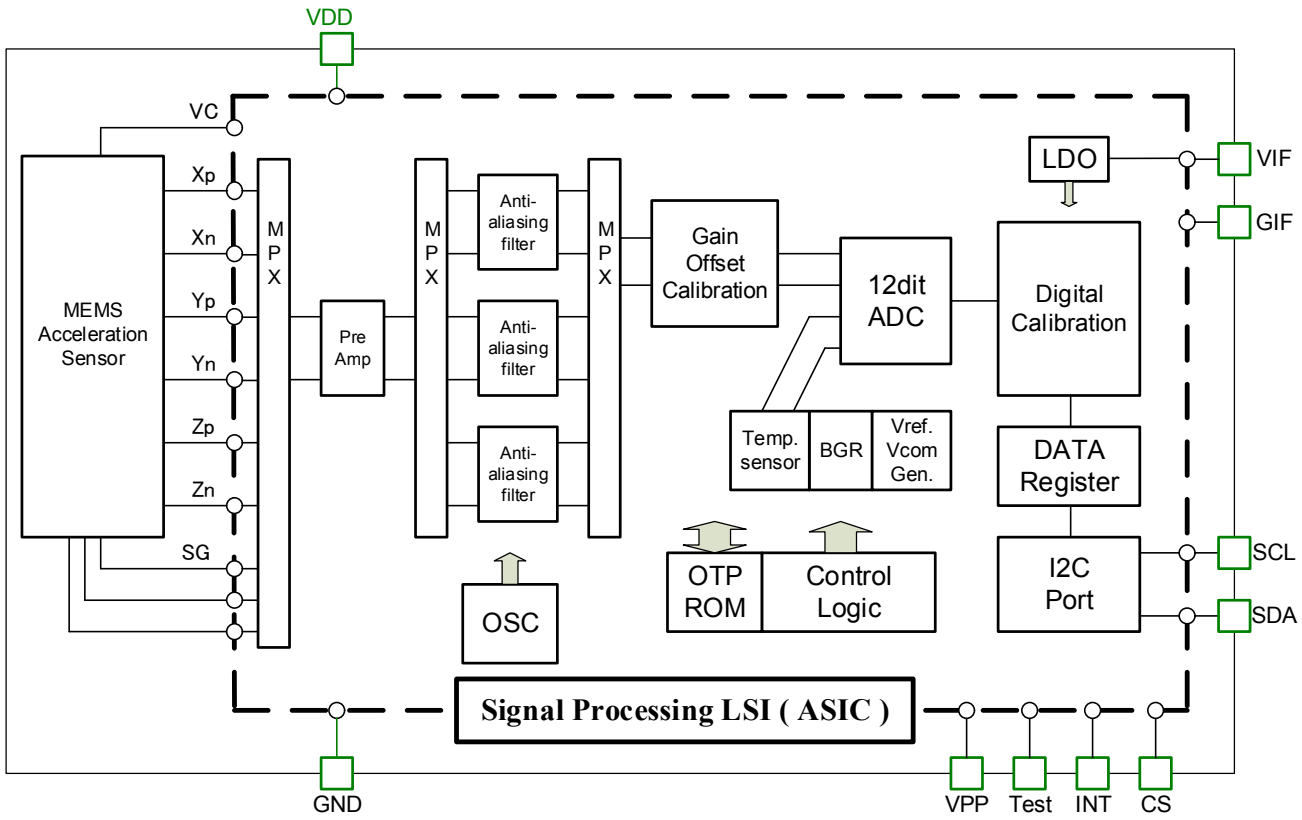
General Description

The HTT7103 is an ultra-low power 3-axis accelerometer which has integrated MEMS sensor and signal conditioning LSI. MEMS sensor has a Stress-relaxation structure.
The MEMS sensor detects 3-axis acceleration. The signal conditioning LSI provides optimal performance with ultra-low power consumption. Digital output data interface through I2C standard.
Factory calibration characterizes sensor parameters such as sensitivity and offset for all temperature range.

Features

- 3 axis digital accelerometer
- I2C digital serial interface
- Small, Surface mount Package
- Supply Range : VDD = 2.4V ～ 3.6V (I/O interface : 1.7V ～ VDD)
  High resolution A/D converter: 12 bits
- Small package: 2 × 2 ×1.1 mm (12 pin)
- Operating temperature : -40℃ ～ 85℃
- Motion detector provides optimum power management
- Low power mode and Power down capability

Block diagram



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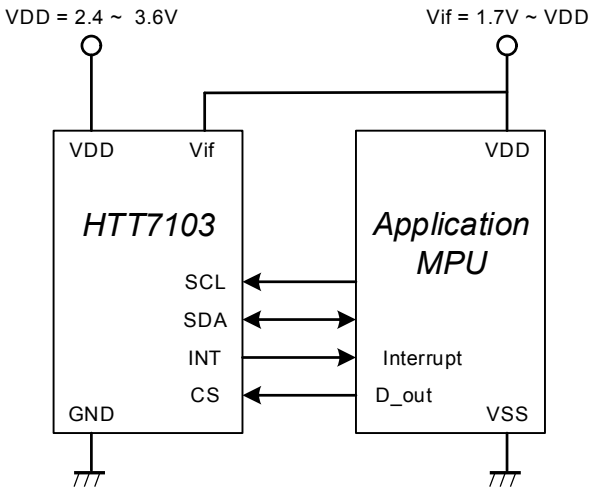
Typical Application circuit



Pin assignment & axis