

Bosch Sensor Mezzanine for 96Boards

The Shiratech Bosch Sensor Mezzanine lets you add highperformance, high-accuracy Bosch sensors to your IoT product

The new Shiratech Bosch Sensor Mezzanine adds full sensing capabilities to the 96boards platform, including pressure and environmental sensors, accelerometer, magnometer and a hub sensor for design and evaluation purposes.



BENEFITS

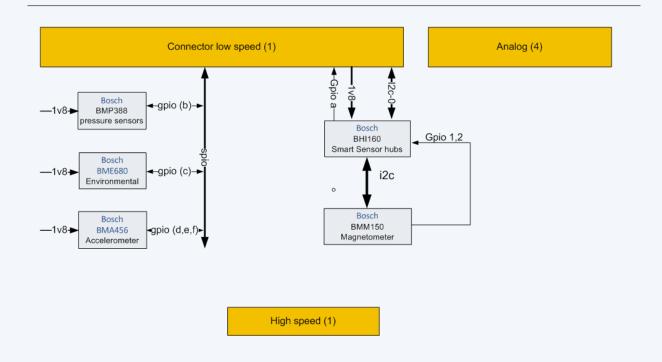
Add high-performance, highly accurate Bosch sensors to your product

Comes with a wide selection of sensors for any IoT/drone application.

All sensors are activated from the 1.8v voltage and controlled by spi-0, i2c-0 and 6 gpio lines (gpio a,b,c,d,e,f).



New bosch sensor balcony



Downloaded from Arrow.com.



The Bosch Sensor Mezzanine includes the following sensors:

- BMP388 Digital pressure and temperature sensor based on proven sensing principles. The sensor enables accurate tracking and is specifically suited for drone applications. Connected to the Snapdragon via SPI interface and 1 x GPIO line.
 - Packadge: 2.0mm x 2.0mm x 0.75mm
 - Supply 1.8v/3.3v
 - Operating range -40 to +85, 300-1250hp
- **BMA456** An16 bit, digital triaxial acceleration sensor with intelligent on-chip motion-triggered interrupt features optimized for wearable applications. Connected to the Snapdragon via SPI interface and 3 x GPIO lines.
 - Packadge: 2.0mm x 2.0mm x 0.65mm
 - Supply 1.8v/3.3v
 - Operating range -40 to +85
- **BME680** A digital 4 in 1 sensor with gas, humidity pressure and temperature measurement based on proven sensing principles. Target devices for this sensor are handsets such as mobile phones, tablets, PCs and GPS devices. Connected to the Snapdragon via SPI interface and 1 x GPIO line.
 - Packadge: 2.0mm x 2.0mm x 0.65mm
 - Supply 1.8v/3.3v
 - Operating range -40 to +85

- BHI160 A small, low power smart-hub with an
 integrated three axis gyroscope plus an integrated three
 axis accelerometer plus a programmable microcontroller.
 Containing pre installed software and specific algorithms
 for activity recognition. It is specifically designed to enable
 always-on motion sensing. ultra low power smart sensor
 hub incl integrated imu.
 - Packadge: 2.0mm x 2.0mm x 0.65mm
 - Supply 1.8v/3.3v
 - Operating range -40 to +85
- **BMM150** A stand alone geomagnetic sensor for consumer market applications. It allows measrments of the magnetic field in three perpendicular axes, based on bosch's proprietary flipcore technology, connected to the smart sensor hub BHI160 via I2C interface and 2 GPIO lines., low power smart-hub with an integrated three axis gyroscope plus an integrated three axis accelerometer plus a programmable microcontroller. Containing.

The Bosch Sensor Mezzanine can be extended with additional functionality through the built-in expansion connectors. These allow you to plug-in additional mezzanines as needed. Additional sensors and peripherals, like a USB camera, can be connected to the 96Boards USB ports to enhance context awareness capabilties. The Bosch Sensor Mezzanine is compatible with the 96Boards consumer edition (CE) products.

