

BMV080

Shuttle Board 3.1 Flyer

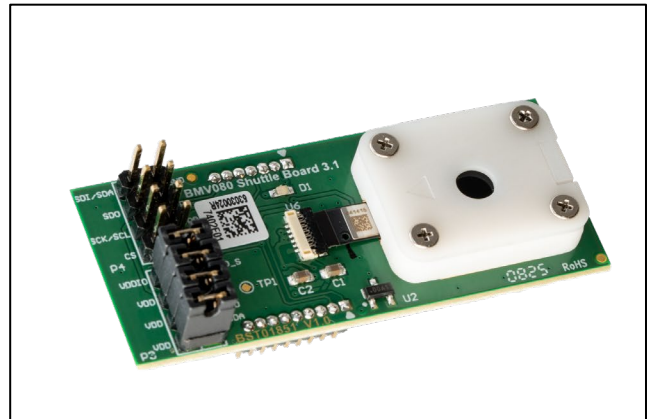
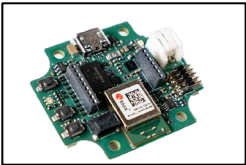
1 General description

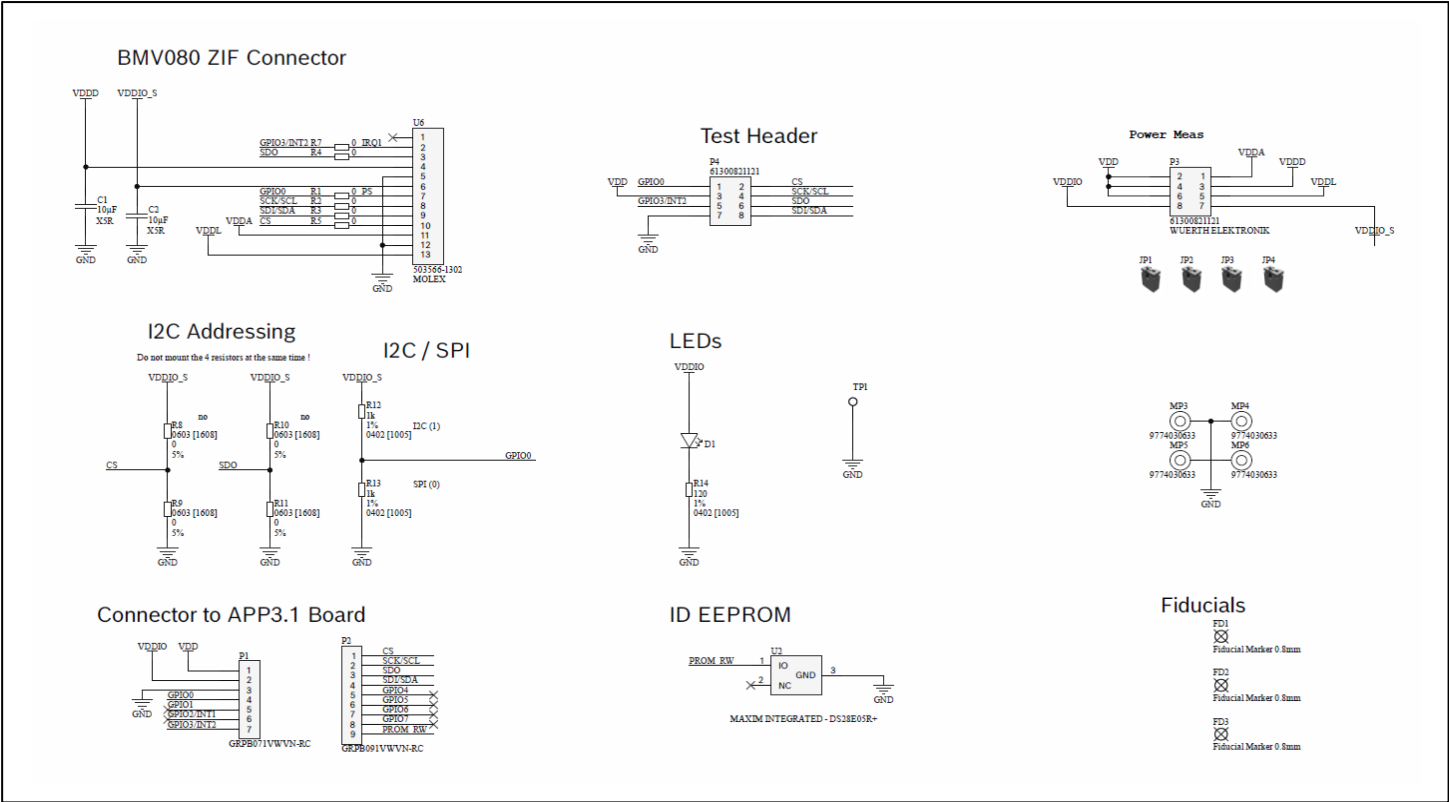
The Bosch Sensortec BMV080 shuttle board 3.1 is a PCB with the BMV080 mounted on it to sense particulate matter mass concentration (PM2.5, PM1, PM10). In combination with the application board 3.1, the BMV080 shuttle board can be used to evaluate BMV080 output signals. The shuttle board allows easy access to the sensor pins via a simple socket and can be directly plugged into the Bosch Sensortec application board 3.1.

Note: BMV080 shuttle board 3.1 is:

- compatible with application board 3.1 only
- not compatible with application board 3.0 or others
- using [BMV080 Web App](#) to visualize the measurements

Below a picture of application board 3.1 for reference.





BMV080 shuttle board 3.1 electrical schematic

2 Designator P1 shuttle board connector

Pin	Pin name	Description
1	VDD	Power supply
2	VDDIO	Power supply
3	GND	Ground
4	GPIO0	Protocol selection pin of SPI or I ² C.
5	GPIO1	Not Connected
6	GPIO2/INT1	Not Connected
7	GPIO3/INT2	Interrupt pin of BMV080

3 Designator P2 shuttle board connector

Pin	Pin name	Description
1	CS	Chip selection pin of SPI bus
2	SCK/SCL	Clock pin of both SPI and I ² C bus
3	SDO	Master-input-slave-output data pin of SPI bus
4	SDI/SDA	Master-output-slave-input data pin of SPI bus / data pin of I ² C bus
5	GPIO4	Not Connected
6	GPIO5	Not Connected
7	GPIO6	Not Connected
8	GPIO7	Not Connected
9	PROM_RW	Connect to EEPROM

Note: The included BMV080 sensor in Shuttle Board 3.1 complies with laser Class 1, as per IEC 60825-1.

Shuttle board identification:

- Sales Part Number: 0273.SB0.000
- Shuttle board ID: BST01851 V1.0
- Shuttle ID: 0x197

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