

## BHI260AP Shuttle board 3.0 flyer

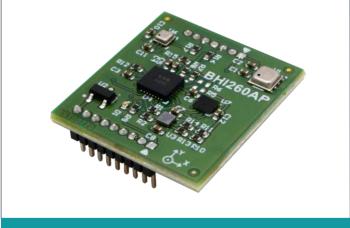
## **GENERAL DESCRIPTION**

The Bosch Sensortec BHI260AP shuttle board 3.0 is a PCB with the smart sensor BHI260AP mounted on it. In combination with the application board 3.0, this shuttle board can be used to evaluate various functionalities provided on BHI260AP. This board can also be used for measuring BHI260AP current consumption (over VDD) and adding own new software inside the BHI260AP.

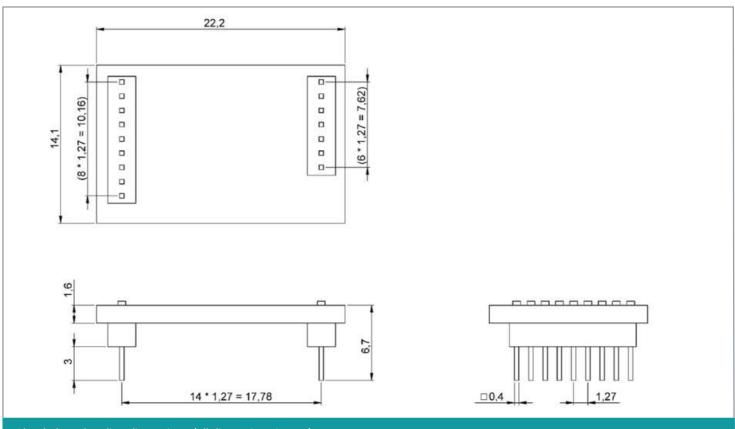
The shuttle board allows easy access to the sensor pins via a simple socket. The shuttle board includes following major components:

- BHI260AP smart sensor
- BME688 environmental sensor (I2C interface)
- BMP390L pressure sensor (I2C interface)
- BMM150 magnetometer (AUX Interface)
- W25Q32FWSSI flash memory 4M (QSPI Interface)
- On-board EEPROM

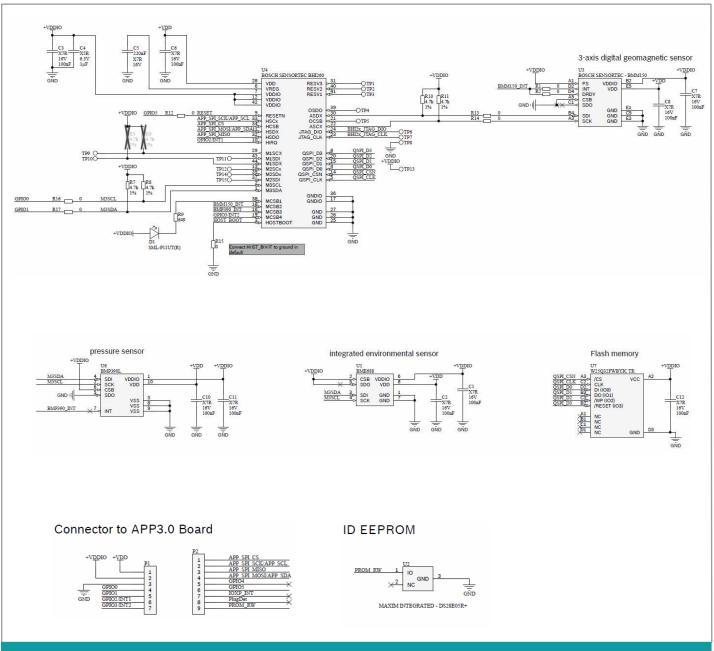
The shuttle board version 3.0 allows to be directly plugged into Bosch Sensortec's application board 3.0.



Product photo may differ from real product's appearance.



Shuttle board outline dimensions (all dimensions in mm)



BHI260AP shuttle board electrical layout

## **DESIGNATOR P2 SHUTTLE BOARD CONNECTOR**

1VDDPower supply (1.8V only!)2CSChip selection pin of SPI bus (connected to BHI260AP host interface)3GNDGround112334M3_SCKSCL pin of M3, with a 4.7 kD pull-up to 1.8V VDDIO2SCKClock pin of both SPI and 12C bus (connected to BHI260AP host interface)5M3_SDASDA pin of M3, with a 4.7 kD pull-up to 1.8V VDDIO3SDOMaster-input-slave-output data pin of SPI bus (connected to BHI260AP host interface)6INTHost interrupt pin (connected to BHI260AP host interruptSDOMaster-input-slave-output data pin of SPI bus (connected to BHI260AP host interface)7CSSPI chip select4/GPIOASDIMaster-input-slave-output data pin of SPI bus (connected to BHI260AB host interface)6NCSDIRESETBHI260AP reset input, active low	Pin number	Pin name	Description	Pin number	Pin name	Description
2VDBOFolder supply (1.6V only),BH1260AP host interface3GNDGround3GNDClock pin of both SPI and 12C bus (connected to BH1260AP host interface)4M3_SCKSCL pin of M3, with a 4.7 kΩ pull-up to 1.8V VDDIO2SCKClock pin of both SPI and 12C bus (connected to BH1260AP host interface)5M3_SDASDA pin of M3, with a 4.7 kΩ pull-up to 1.8V VDDIO3SDOMaster-input-slave-output data pin of SPI bus (connected to BH1260AP host interface)6INTHost interrupt pin (connected to BH1260AP host interrupt3SDIMaster-input-slave-output data pin of SPI bus (connected to BH1260AP host interface)7CSSPI chip select4/GPIOAAA4SDIMaster-input-slave-output data pin of SPI bus (connected to BH1260AB host interface)SDIMaster-input-slave-output data pin of SPI bus (connected to BH1260AP host interface)7CSSPI chip select4/GPIOABB4SDIRESETBH1260AP reset input, active low	1	VDD	Power supply (1.8V only!)		CS	bus (connected to
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5M3_SDASDA pin of M3, with a 4.7 kΩ pull-up to 1.8V VDDIOSDOMaster-input-slave-output data pin of SPI bus (connected to BHI260AP host interface)6INTHost interrupt pin (connected to BHI260AP host interrupt3SDOMaster-input-slave-output data pin of SPI bus (connected to BHI260AP host interface)7CSSPI chip select4/GPIOASDIMaster-input-slave-output data pin of SPI bus (connected to BHI260AB host interface)4FFFSDIMaster-input-slave-output data pin of SPI bus (connected to BHI260AB host interface)5NCFFBHI260AP reset input, active low	4	M3_SCK		2	SCK	I2C bus (connected to
6INTHost interrupt pin (connected to BHI260AP host interrupt)3(connected to BHI260AP host interface)7CSSPI chip select4/GPIO $4$ SDIMaster-input-slave-output data pin of SPI bus (connected to BHI260AB host interface)4 $4$ $1$ $1$ $1$ $1$ 5NC $1$ $1$ $1$ $1$ $1$ 6RESETBHI260AP reset input, active low $1$ $1$ $1$	5	M3_SDA	•		SDO	Master-input-slave-output
4 data pin of SPI bus (connected to BHI260AB host interface)   5 NC   6 RESET BHI260AP reset input, active low	6	INT		3		(connected to BHI260AP
6 RESET BHI260AP reset input, active low	7	CS	SPI chip select4/GPIO	4	SDI	data pin of SPI bus (connected to BHI260AB
6 active low				5	NC	
7 NC				6	RESET	
				7	NC	
8 NC				8	NC	
9 PROM_RW Connect to EEPROM				9	PROM_RW	Connect to EEPROM

Shuttle board identification:

- ► Shuttle ID: 101011001
- ► Shuttle board identifier: BST01047

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