



Product Description	Technical data	Documents & drivers
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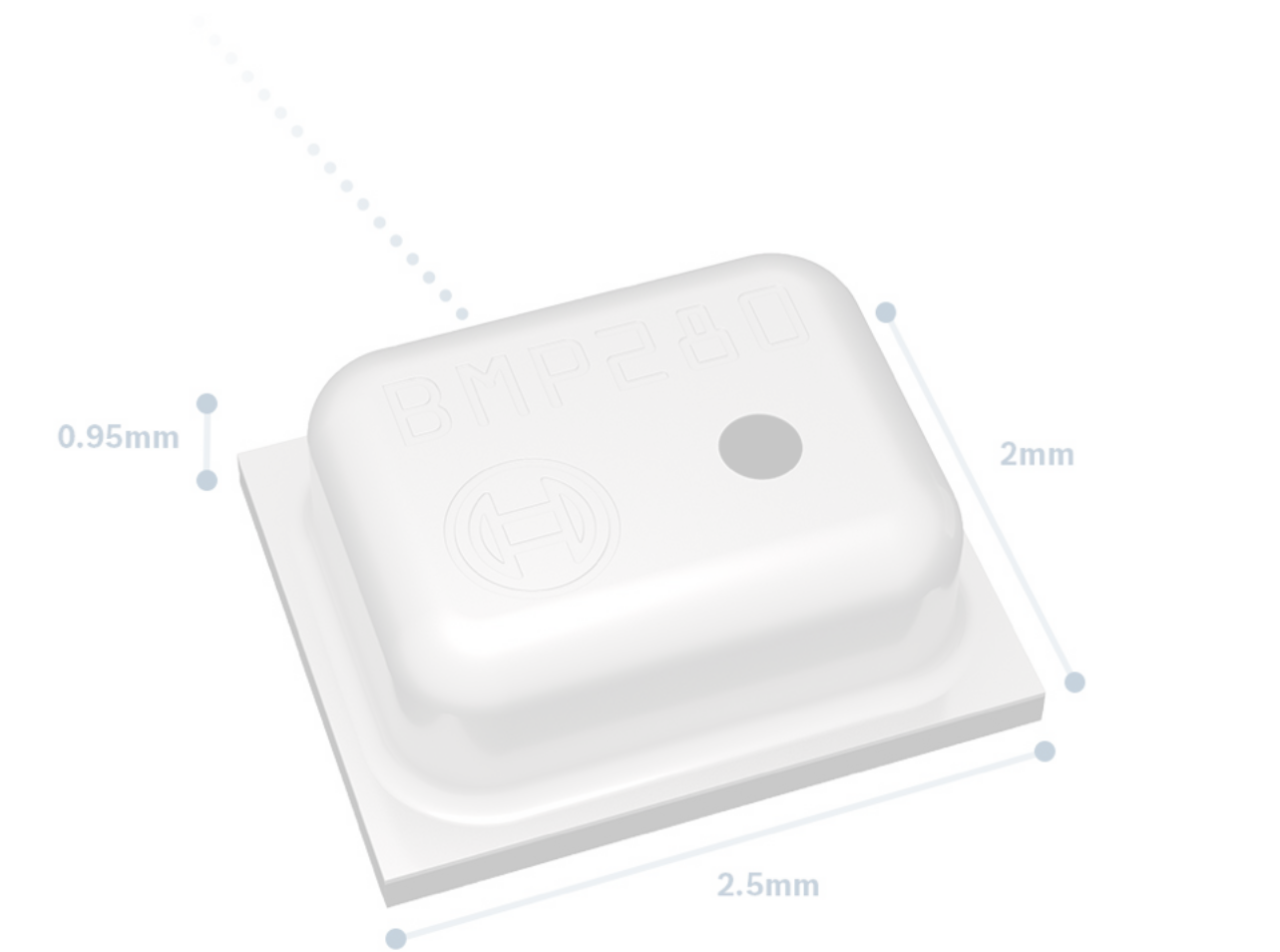
### BMP280

BMP280 is an absolute barometric pressure sensor especially designed for mobile applications. The sensor module is housed in an extremely compact package. Its small dimensions and its low power consumption allow for the implementation in battery powered devices such as mobile phones, GPS modules or watches.

As its predecessor BMP180, BMP280 is based on Bosch’s proven Piezo-resistive pressure sensor technology featuring high accuracy and linearity as well as long term stability and high EMC robustness. Numerous device operation options offer highest flexibility to optimize the device regarding power consumption, resolution and filter performance. A tested set of default settings for example use case is provided to the developer in order to make design-in as easy as possible.

#### Applications

- Enhancement of GPS navigation (e.g. time-tofirst-fix improvement, dead-reckoning, slope detection)
- Indoor navigation (floor detection, elevator detection)
- Outdoor navigation, leisure and sports applications
- Weather forecast
- Health care applications (e.g. spirometry)
- Vertical velocity indication (e.g. rise/sink speed)

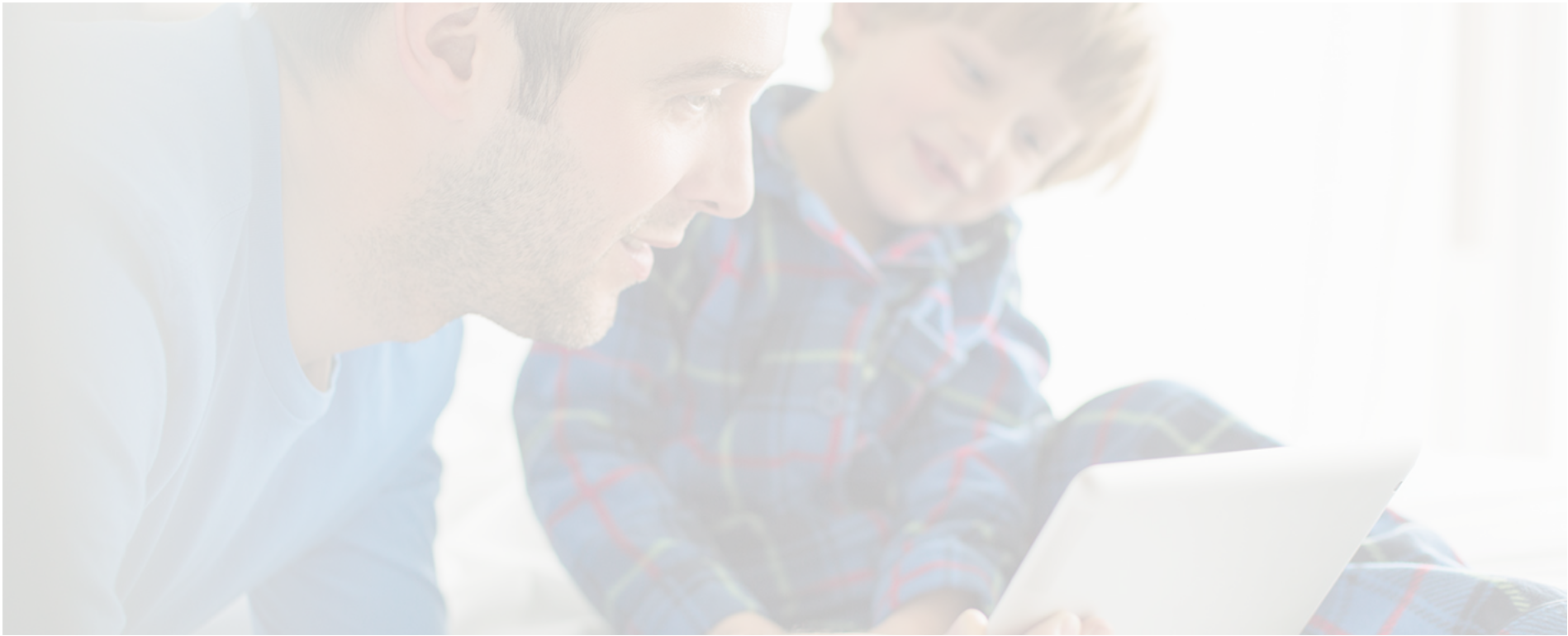


## Main features



Pressure

Measures barometric pressure and altitude



## IoT and Smart Home

Today it's possible to regulate the lighting, heating and various home appliances in your home? Billions of objects are becoming connected to the internet, including vehicles, homes, machines and many other things that make up our everyday lives. MEMS sensors are able to measure temperature and control devices, e.g. sound an alarm when a measured object overheats.

➤ [discover the application](#)

➤ [watch the video](#)

### Other sensors in the same category



**BMP388**  
The BMP388 is a very small, low-power and highly accurate absolute barometric pressure sensor. The sensor enables accurate altitude tracking and is specifically suited for drone applications.

➤ [More information](#)



**BME680**  
The BME680 integrates sensors for gas, pressure, humidity and temperature. The integrated gas sensor within the BME680 can detect a broad range of gases to measure indoor air quality for personal well being. It comes in a metal-lid 3 x 3. x 0.95 mm³ LGA package.

➤ [More information](#)



**BME280**  
The BME280 is an integrated environmental sensor developed specifically for mobile applications. The unit combines sensors for pressure, humidity and temperature in an metal-lid 2.5 x 2.5 x 0.93 mm³ LGA package.

➤ [More information](#)



**BMP380**  
The BMP380 is a very small, low-power and low-noise 24 bit absolute barometric pressure sensor. BMP380 is specifically designed and ideally suited for a wide range of altitude tracking applications.

➤ [More information](#)