

BSX 3.0

Sensor Fusion Software

Bosch Sensortec



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General Description

BSX3.0, the third generation of Bosch Sensortec's FusionLib sensor fusion software, intelligently fuses raw data from multiple sensors for optimal performance.

The FusionLib software supports 6-axis and 9-axis implementations and can be scaled to run optimally on both embedded microcontroller and application processors, thus, supporting both Android and Microsoft Windows 8 operating systems today. The software's scalable architecture also means that it can be easily adapted for other operating systems.

The FusionLib software provides a ready-to-use advanced sensor-fusion system that reduces the complexity for OEMs and helps in the rapid development of advanced sensor applications, such as augmented reality, image stabilization, pedestrian tracking and gesture recognition.

Components

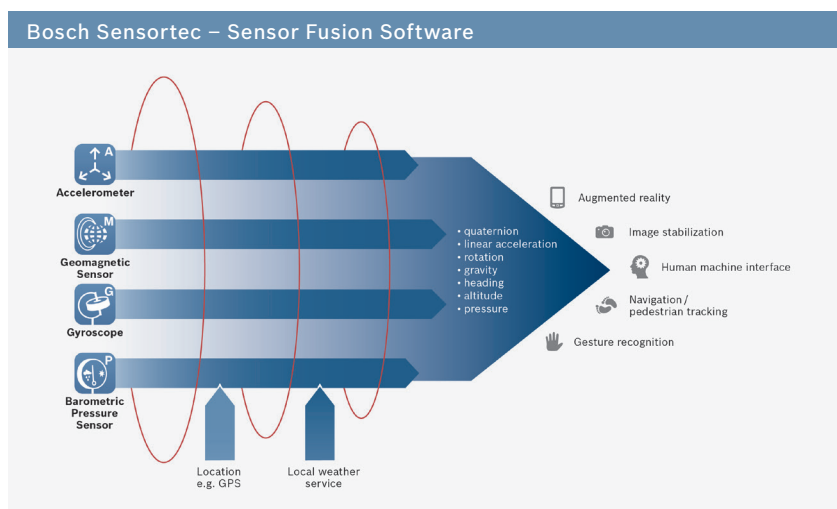
- ▶ Supports eCompass / IMU / M4G modes
- ▶ Advanced soft iron calibration
- ▶ Reduced memory requirements
- ▶ Advanced power saving modes
- ▶ Advanced magnetic distortion detection
- ▶ Supports Windows 8 and Android 4.x and below

Applications

BSX provides dynamic and accurate orientation to the target platform which is typically used to provide enhanced user experience for e.g. gaming, navigation systems, dead reckoning and augmented reality.

Advantages

- ▶ Hardware and software co-design for optimal performance
- ▶ Complete software fusion solution out of one hand
- ▶ Eliminates need for own fusion software development
- ▶ Robust virtual sensor outputs optimized for the application



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