Inertial Combo Sensor for Automotive Safety Critical Applications

Combined dual axis gyroscope and 3-axis accelerometer with digital SPI interface

Features
- ISO26262 compliant for systems up to ASIL-D
- Component family with pin to pin and SW compatibility
  - 4 DoF X or Z-gyro + xyz accelerometer
  - 5 DoF XZ-gyro + xyz accelerometer
- ±300°/s angular rate measurement range for robust sensing in harsh environment
- ±6g 3-axis acceleration measurement (XYZ) range
- ±15g auxiliary 3-axis acceleration measurement (XYZ) range
- -40°C...+110°C operating range (Contact to Murata if +125°C is needed)
- User selectable filter setting 13, 20, 46, 200, 300Hz
- 3.0V...3.6V supply voltage
- Extensive self-diagnostics features
- Qualified according to AEC-Q100 standard

Applications
SCC3000 is targeted at safety critical applications and applications demanding high stability in tough environmental conditions.

Typical applications include:
- Electronic Stability Control (ESC)
- Headlight alignment
- Roll Over and Roll Stability Control
- Dynamic Chassis Control
- Lane Keeping Assistance (LKA)
- Motion and navigation measurement

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