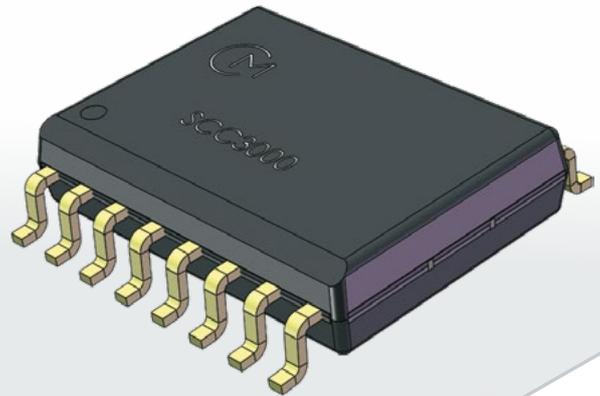


SCC3000

## Inertial Combo Sensor for Automotive Safety Critical Applications

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



Size

10.4 x 7.65 x 2.3 mm

SOIC16W

### 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
- $\pm 300^\circ/s$  angular rate measurement range for robust sensing in harsh environment
- $\pm 6g$  3-axis acceleration measurement (XYZ) range
- $\pm 15g$  auxiliary 3-axis acceleration measurement (XYZ) range
- $-40^\circ C \dots +110^\circ C$  operating range (Contact to Murata if  $+125^\circ C$  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