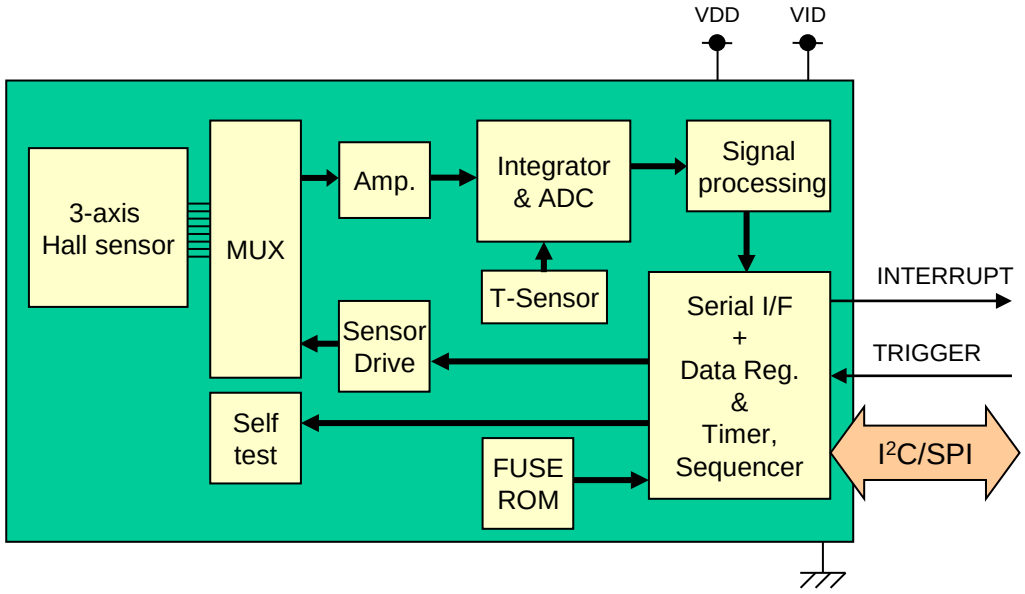
# Product Brief ~3-axis E-compass~

## AK09912C

***Low-power, high performance***

- 3-axis magnetometer device suitable for compass application
- Built-in A to D Converter for magnetometer data out
- 16-bit data out for each 3 axis magnetic components
- Operation modes:
  Power-down, Single measurement, Continuous measurement, External trigger measurement, Self test and Fuse ROM access.
- DRDY function for measurement data ready
- Magnetic sensor overflow monitor function
- Built-in oscillator for internal clock source
- Power on Reset circuit
- Self test function with built-in internal magnetic source
- Built-in Noise Suppression Filter (NSF)
- Built-in temperature sensor

2013/Oct.




| | |
|---|---|
| Operating temperature | -30° C to +85° C |
| Supply voltage | VDD: +1.7V to +3.6V<br>VID: +1.65V to VDD |
| Current consumption | Stand-by 3uA<br>Average@100Hz 1mA |
| Sensitivity | 0.15uT/LSB |
| Measurement range | +/- 4900uT |
| Serial interface | I2C bus / 4-wire SPI |
| Package | 14pin WL-CSP (BGA)<br>1.6 x 1.6 x 0.5mm |