

MagVector™ MV2 3-Axis Magnetic Sensor

Datasheet – Overview

Version 2.1

(Revision 1.0)

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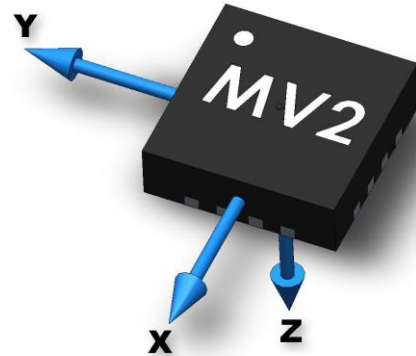
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MagVector™ MV2 3-axis magnetic sensor

Overview

FEATURES

- Measures total field: 3-axis
- Selectable measurement ranges:
from 100 mT to 30 T
- Low noise: 300 nT/ $\sqrt{\text{Hz}}$
- Supply voltage: 3.3 V or 5 V
- Analog and digital interfaces
- Selectable measurement rate: up to 3 kHz
- Selectable resolution: 14 to 16 bits
- Non-magnetic package



SAMPLE APPLICATIONS

- High performance embedded applications
- Custom multi-probe field mappers
- Magnetic flux leakage measurement

GENERAL DESCRIPTION

The MagVector™ MV2, designed and manufactured by MPS Tech Switzerland (formerly Sensima Technology) in Gland, Switzerland, is a robust 3-axis magnetic Hall effect sensor. It features an analog as well as digital interface, selectable by the user. The analog mode delivers voltages proportional to the magnetic field, and the measurement range is configurable via simple wiring. In the digital mode, the MagVector MV2 communicates through a Serial Peripheral Interface (SPI) for configuration and data delivery. The non-magnetic QFN package is compatible with MRI environments.

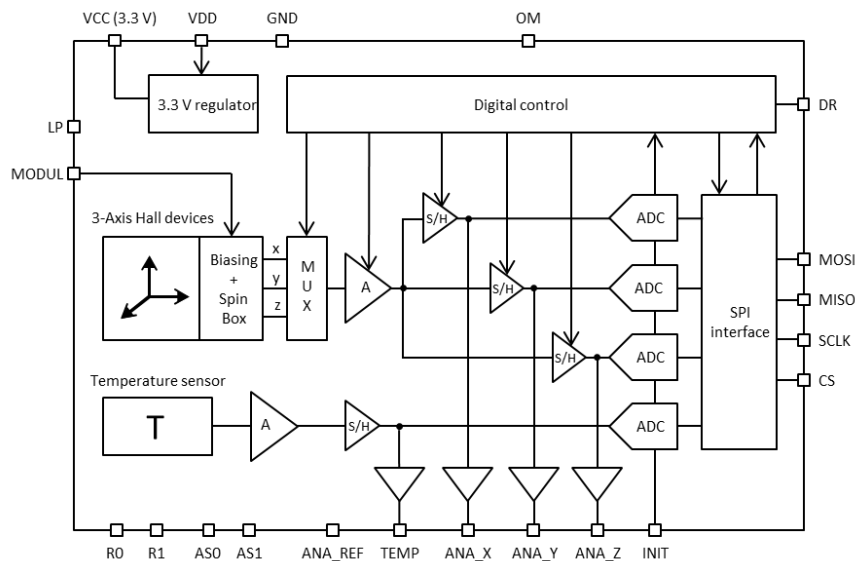


Figure 1. Block diagram