



Triaxial Inertial Sensor with Magnetometer

Silicon Anomaly

ADIS16407

ADIS16407 ANOMALIES

This anomaly list describes the known bugs, anomalies, and workarounds for the [ADIS16407](#).

Analog Devices, Inc., is committed, through future silicon revisions, to continuously improve silicon functionality. Analog Devices tries to ensure that these future silicon revisions remain compatible with your present software/systems by implementing the recommended workarounds outlined here.

ANOMALY STATUS

Reference Number	Description	Status	Date Code
er0001	XGYRO_OFF error after Burst-Mode read	Fixed	1247

XGYRO_OFF REGISTER ERROR AFTER BURST READ [er011]

Background	This product provides two different read functions: single-register and burst-read. The XGYRO_OFF register provides a configurable offset correction register, which applies to the XGYRO_OUT output
Issue	After executing a burst-read sequence, XGYRO_OFF[15] resets to zero. If XGYRO_OFF contains a negative number, this causes a corruption of the offset correction in the x-axis gyroscope.
Workaround	Firmware Revision 1.7 incorporated changes that address this issue. The contents of Address 0x52 can serve as a switch variable in system firmware. If the contents of Address 0x52 are less than 0x18, then there are two choices for workarounds: (1) do not use burst-read or (2) avoid using XGYRO_OFF and implement the offset correction function in the system processor. For a visual reference, this issue will not exist on date codes 1247 and above.
Related Issues	None.

Rev. 0

Information furnished by Analog Devices is believed to be accurate and reliable. However, no responsibility is assumed by Analog Devices for its use, nor for any infringements of patents or other rights of third parties that may result from its use. Specifications subject to change without notice. No license is granted by implication or otherwise under any patent or patent rights of Analog Devices. Trademarks and registered trademarks are the property of their respective owners.

One Technology Way, P.O. Box 9106, Norwood, MA 02062-9106, U.S.A.
Tel: 781.329.4700 www.analog.com
Fax: 781.461.3113 ©2013 Analog Devices, Inc. All rights reserved.

NOTES

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Analog Devices Inc.:](#)

[ADIS16407BMLZ](#)