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

XGRYO_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.

NOTES

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