Compact, Precision
Ten Degrees of Freedom Inertial Sensor
Silicon Anomaly
ADIS16448

This anomaly list describes the known bugs, anomalies, and workarounds for the ADIS16448.

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 within this document.

PERFORMANCE ISSUES

Table 1. TEMP_OUT Locks Up When Entering External Sampling Clock Mode [er001]

Background	The ADIS16448 provides two options for driving the sampling of gyroscope, accelerometer, and temperature data: internal and external. Users can select the mode by writing either 0 (external sampling clock mode) or 1 (internal sampling clock mode) to SMPL_PRD[0].
Issue	When entering external sampling clock mode (writing 0x00 to SMPL_PRD[7:0]), the internal temperature measurement can lock up and fail to track changes in temperature, which in turn locks up the data in the TEMP_OUT register and can cause the bias error in both gyroscopes and accelerometers to increase.
Workaround	If the application requires use of the external clock, read the LOT_ID1[7:0] bits. If LOT_ID1[7:0] ≥ 0x22, this issue does not apply. If LOT_ID1[7:0] < 0x22 and external clock support is a requirement, replace the unit.
Related Issues	None.

ANOMALY STATUS

Reference Number	Description	Status	Date Code
er001	TEMP_OUT Locks Up When Entering External Sampling Clock Mode	Fixed	1708

NOTES

ANALOG
DEVICES

www.analog.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for IMUs - Inertial Measurement Units *category:*

Click to view products by Analog Devices *manufacturer:*

Other Similar products are found below :

BMI055 LSM303AGRTR IMU381ZA-200 IMU383ZA-400 4464 4502 4517 ADIS16362BMLZ ADIS16364BMLZ ADIS16365BMLZ ADIS16445BMLZ ADIS16465-1BMLZ ADIS16465-2BMLZ ADIS16465-3BMLZ ADIS16467-1BMLZ ADIS16470AMLZ ADIS16475-3BMLZ ADIS16477-3BMLZ ADIS16495-2BMLZ ADIS16497-2BMLZ ADIS16505-3BMLZ ADIS16505-1BMLZ ADIS16505-2BMLZ ADIS16507-2BMLZ ADIS16507-1/PCBZ ADIS16507-2/PCBZ BMI088 BMI160 BMX055 TARS-HCASS 3DM-GX5-GNSS/INS LSM6DSLTR MPU-6050 SCC2130-D08-05 SCC2230-D08-05 SCC2230-E02-05 FMT1010T FMT1020T MTI-300-2A8G4 MTI-200-2A8G4 MTI-G-710-2A8G4 LSM6DS3TR TARS-LCASS MTi-7-0I-T ADIS16375BMLZ ADIS16477-2BMLZ ADIS16490BMLZ ADIS16489BMLZ-P MTi-30-2A8G4 ICM-30670