## Errata：CS5532／34－BS Rev．C

（Reference CS5532－BS and CS5534－BS Rev．C Silicon）

## 1．Voltage Reference Input（page 6，Analog Characteristics）：

Specified：CVF Current； 500 nA Typical
Actual：CVF Current on VREF＋；1，500 nA Typical
CVF Current on VREF－；5，500 nA Typical

2．Analog Input，Gain $=1 \mathrm{X}$（page 6，Analog Characteristics）：
Specified：CVF Current on AIN＋or AIN－； 500 nA Typical
Actual：$\quad$ CVF Current on AIN＋or AIN－； $1,250 \mathrm{nA}$ Typical

## 3．Self Calibration of Offset：

Details：There is some residual offset after performing a Self Offset calibration．
Workaround：A self－offset calibration can be performed with the following procedure：
1）Write to the Configuration Register，and set the＂IS＂bit（bit 27）to 1.
2）Perform a System Offset Calibration on the desired channel．
3）Write to the Configuration Register，and set the＂IS＂bit back to 0 ．

## 4. Uncalibrated Gain Error:

Details: There is a systematic initial gain error of $8 \%$ on all devices. When the part is operated without calibration, the digital readings from the device are $8 \%$ lower than the expected value. Mathematically, this means that the actual full-scale input value is at 1.08 times the expected full-scale input value. For example, if the converter is set up for a full-scale value of 1.25 V with the gain register set to 1.0 (which is the default un-calibrated value after a reset), the part will not produce a full-scale code until the input voltage reaches 1.35 V .

Workaround:In a system that calibrates for gain, no workaround is needed. The gain calibration will correct for the initial gain error.
In a system which does not calibrate for gain, but relies on the uncalibrated gain accuracy of the device ( $\pm 1 \%$ typically), the gain register can be adjusted by a factor of 1.08 to compensate for the initial $8 \%$ error. In the gain register, the decimal value of 1.08 is equal to a hexadecimal value of $0 \times 01147 \mathrm{AE} 1$.

If there are any questions concerning this information, please contact any of the Data Acquisition support team members or send email directly to datacq@ crystal.com. Also, please visit out web site at http://www.crystal.cirrus.com or call our literature department at 1 (800) 888-5016, ext. 3594 or 1 (512) 912-3594 for data sheets and application notes.

