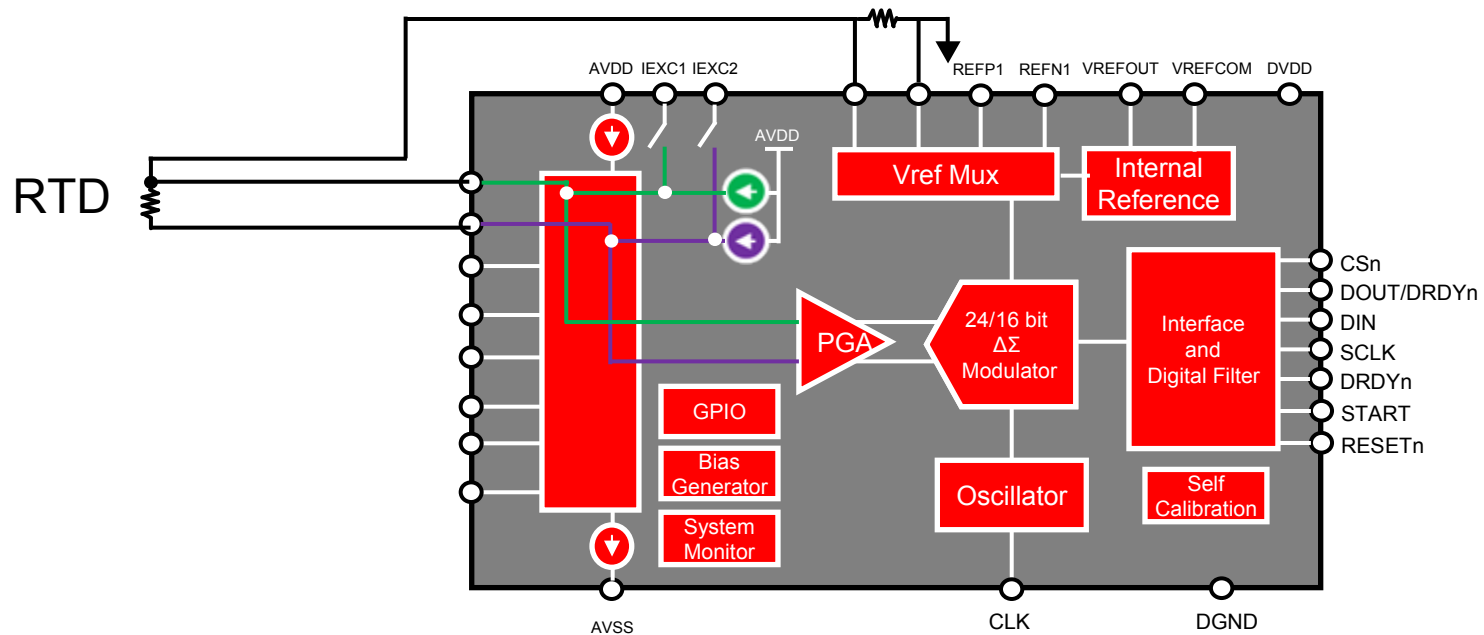


Eliminating IDAC mismatches

- Works on the ADS1248, ADS1247, ADS1148, and ADS1147.
- For sensors requiring multiple current sources, it isn't the accuracy of the IDACs that matters, it's the mismatch and mismatch drift.
 - This is because the measurement is ratio-metric.
- Because the ADS1147, ADS1148, ADS1247 and ADS1248 allow any configuration of IDAC on any channel, the IDACs can be effectively chopped between inputs.

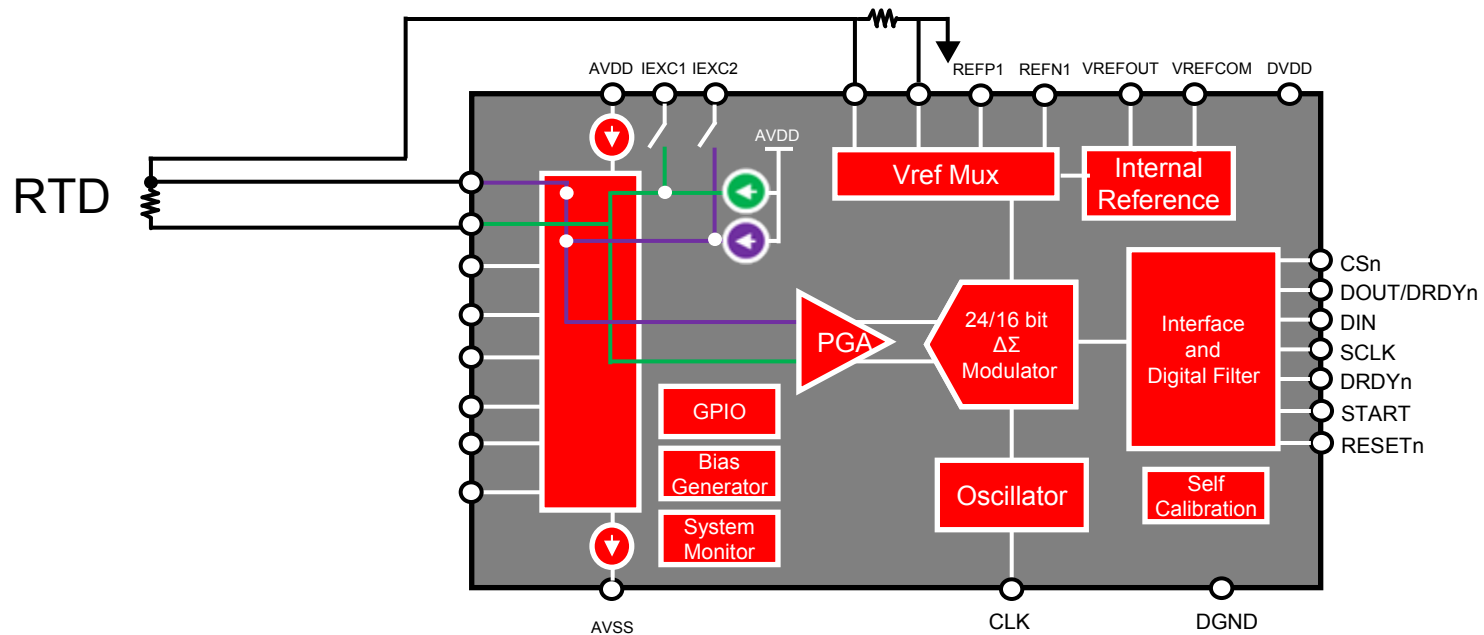
Eliminating IDAC mismatches

Sample 1



Eliminating IDAC mismatches

Sample 2



$0.5 \times (\text{Sample 1} + \text{Sample 2})$ yields a mismatch corrected result