

per channel. It includes a 2-to-1 input mux with programmable option of TAG bit output and a 16-bit, capacitor-based SAR ADC with inherent sample and hold.

The LED current drive is controlled via the DAC7573 with micropower operation of 600 uA at 5 V V_{dd}, which meets the needs of portable applications.

To meet the application's high-precision I/V conversion and low-noise signal processing requirements, the OPA381 handles the front end amplification of the nA range input signals, providing a full five decades of dynamic range.

A high-quality reference voltage is essential for achieving the best performance from the ADS8328 and DAC7573. Noise and drift can degrade overall system performance. The REF5025 precision voltage reference provides excellent temperature drift (3ppm/°C), low noise of 3uV_{pp}/V, and 0.05% accuracy.

The PO AFE module can seamlessly connect through standard interface to various processor platforms, such as the [C550x EVM](#) or the OMAP35xx Zoom Development Kit.

EVALUATION BOARD/KIT/MODULE TOOL (“Tool”) WARNINGS, RESTRICTIONS AND DISCLAIMER

For Feasibility Evaluation Only in Laboratory/Development Environments, Not for Medical Diagnostic Use.

This Tool is intended solely for evaluation and development purposes. It is not intended for diagnostic use and may not be used as all or part of an end equipment product.

This Tool should be used solely by qualified engineers and technicians who are familiar with the risks associated with handling electrical and mechanical components, systems and subsystems.

Your Obligations and Responsibilities.

Please consult the User's Guide prior to using the Tool. Any use of the Tool outside of the specified operating range may cause danger to the users and/or produce unintended results, inaccurate operation, and permanent damage to the Tool and associated electronics. You acknowledge and agree that:

- You are responsible for compliance with all applicable Federal, State and local regulatory requirements (including but not limited to Food and Drug Administration regulations, UL, CSA, VDE, CE, RoHS and WEEE,) that relate to your use (and that of your employees, contractors or designees) of the Tool for evaluation, testing and other purposes.
- You are responsible for the safety of you and your employees and contractors when using or handling the Tool. Further, you are responsible for ensuring that any contacts or interfaces between the Tool and any human body are designed to be safe and to avoid the risk of electrical shock.
- You will defend, indemnify and hold TI, its licensors and their representatives harmless from and against any and all claims, damages, losses, expenses, costs and liabilities (collectively, “Claims”) arising out of or in connection with any use of the Tool that is not in accordance with the terms of this agreement. This obligation shall apply whether Claims arise under the law of tort or contract or any other legal theory, and even if the Tool fails to perform as described or expected.