



New Product Announcement

Mouser Electronics Now Stocking Texas Instruments' OPA855 8-GHz Operational Amplifier

July 3, 2019 – [Mouser Electronics](#), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [OPA855](#) decompensated amplifier from [Texas Instruments](#) (TI). Designed as a wideband, low-noise, bipolar-input operational amplifier, the OPA855 excels in high bandwidth transimpedance and voltage amplifier applications. The 8-GHz gain-bandwidth product (GBWP) of the OPA855 enables high-gain configurations while maintaining wide closed-loop bandwidth. Additionally, the low input-voltage noise of 0.98 nV/ $\sqrt{\text{Hz}}$ minimizes noise contribution from the amplifier, and the high slew rate of 2750 V/ μs enables wide output voltage swings.

For transimpedance amplifier (TIA) applications [TI's OPA855](#), available from Mouser Electronics, features a low input capacitance of only 0.8 pF, which minimizes the total circuit input capacitance and enables higher-speed designs. The device also uses a unique package pinout that simplifies the layout of the feedback network while simultaneously isolating pin-to-pin capacitance between the input and feedback connections. This pinout design reduces the total parasitic capacitance around the amplifier's feedback network, allowing for high-gain TIA designs to achieve wide bandwidth.

TIA applications for the OPA855 include in optical time-of-flight (ToF) systems with a time-to-digital converter, such as TI's [TDC7201](#). Alternatively, the OPA855 can also be used to drive a high-speed analog-to-digital converter (ADC) in high-resolution LIDAR systems with a differential output amplifier, such as TI's [THS4541](#) or [LMH5401](#).

The OPA855 is the latest addition to TI's family of ultra-wide bandwidth operational amplifiers, which also includes the FET-input [OPA858](#) and [OPA859](#) devices. This family of amplifiers is ideal for wideband transimpedance circuits as well as high-speed [data acquisition](#) systems, low-noise front ends, and more. The device is supported by the dedicated [OPA855DSGEVM](#) op amp evaluation module and the general-purpose [DEM-OPA-WSON8-EVM](#) unpopulated evaluation board.

To learn more, visit www.mouser.com/ti-opa855-amplifiers.

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