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Low Cost 5V/300MHz Triple Video Amplifier Supports 1080p High Definition Format

MILPITAS, CA – October 18, 2006 – Linear Technology Corporation introduces the LT6559, a single-supply triple amplifier with an industry-leading combination of small size, high speed performance and low cost, making it ideal for applications such as 1080p High Definition video. Available in a tiny 3mm x 3mm QFN package, the LT6559 offers excellent AC performance with 150MHz 0.1dB flatness bandwidth, 800 V/us slew rate and a wide output swing of 1.15V to 3.85V on a single 5V supply.

“Each amplifier has its own enable pin, which facilitates individual channel control,” says Tim Regan, applications manager. “This feature provides great flexibility in forming various multiplexer, cable-driver and ADC driver functions at low cost.” When enabled, each amplifier draws only 3.9mA and when disabled, current consumption drops to only 0.1uA per amplifier.


Applications include consumer video-playback equipment, KVM (keyboard, video, mouse) switches and LCD projectors and displays. Specified to operate on either single 5V or $\pm 5V$ supplies, the LT6559 is available now starting at just \$0.95 each in quantities of 1,000.

Summary of Features:

- 300MHz BW on Single 5V and $\pm 5V$ Supplies ($A_V = 1, 2$ and -1)
- 0.1dB Gain Flatness: 150MHz ($A_V = 1, 2$ and -1)
- High Slew Rate: 800V/ μ s
- Low Noise: 4.5 nV/ $\sqrt{\text{Hz}}$
- Wide Output Swing: 1.15V to 3.85V typ on 5V Supply
- Wide Supply Range: 4V to 12V Single Supply ($\pm 2V$ to $\pm 6V$)
- Low Supply Current: 3.9mA per Amplifier
- Separate Enable Pins for Each Channel
- Fast Turn-on Time: 30ns
- Fast Turn-off Time: 40ns
- Tiny 3mm x 3mm 16-Pin QFN Package

About Linear Technology

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P 500 index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit www.linear.com

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