

LTC News for Immediate Release

For more information, tel. 408-432-1900
Doug Dickinson, Media Relations Mgr., ext. 2233
John Hamburger, Dir., Mktg Comm., ext. 2419
www.linear.com

UXGA Resolution RGB Amplifier Eliminates Negative Supply

MILPITAS, CA, – April 28, 2006 – Linear Technology Corporation introduces the LT6557, the fastest triple video amplifier for single supply applications. The LT6557 features a wide output swing that extends to 0.8V of supply rails, making it the only wideband RGB amplifier capable of providing full video swing when operated from a 5V single supply. The LT6557's -3dB bandwidth of 500MHz, fast slew rate of 2200V/us coupled with a quick 4ns settling time, enhances AC performance of the amplifier, resulting in sharper video images. In addition, the LT6557 has a 0.1dB gain flatness that extends to 120MHz, facilitating use over a wide range of video signals.

"The LT6557's unique internal architecture simplifies the task of processing high speed video signals in single supply applications," according to Dan Tran, design section leader for Linear Technology's Signal Conditioning Products. "An internal biasing feature allows the user to program the inputs of all three amplifiers to the same dc voltage level with a single resistor. This feature minimizes external component count and simplifies AC-coupled applications. Furthermore, the internal fixed gain of 2 eliminates six external gain setting resistors required for driving double-terminated cables."

The LT6557 is ideal for use in SXGA and UXGA LCD projectors and monitors, digital presenters, scanners, automotive display systems such as in-car navigation or in-car video systems and CCD imaging systems.

Offered in the space saving 16-pin SSOP and DFN packages, the LT6557 is fully specified for operation over the industrial and commercial temperature ranges. Pricing starts at \$2.50 each in 1,000-piece quantities.

Photo Caption: Single Supply RGB Amplifier**Summary of Features: LT6557**

- 500MHz -3dB Small Signal Bandwidth
- 400MHz -3dB $2V_{P-P}$ Large Signal Bandwidth
- 120MHz ± 0.1 dB Bandwidth
- High Slew Rate: 2200V/us
- Single 4V to 7.5V Supply Operation
- Output Swings to 0.8V of Supply Rails
- AC Coupling with Programmable DC Input Bias
- Fixed Gain of 2: Requires No External Resistors
- Available in SSOP-16 and 5mm x 3mm DFN Packages

Company Background

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

Contact:

Doug Dickinson, Media Relations Manager

Linear Technology Corporation

1630 McCarthy Boulevard


Milpitas, CA 95035-7417

ddickinson@linear.com

408-432-1900

READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site:

<http://www.linear.com>

Note: LT, LTC, and  are registered trademarks of Linear Technology Corp.