

Broadband News Update



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23 June 08 Anadigics Launches fully intergrated 1GHz Tuner.

ANADIGICS, Inc. (Nasdaq: ANAD) today announced the launch of the AIT1032, a fully integrated, 1 GHz tuner that enables crystal-clear video in CATV set-top boxes, DVRs, PC TV tuner cards, and other tuner-on-board applications. Incorporating the upconverter, downconverter, VCO, synthesizer, RF and IF amplifier, and RF and IF gain control functions into a single package, the device provides the low noise and low distortion performance required for superb video quality in today's CATV systems that combine digital and analog channel lineups together using a densely loaded spectrum.

Ron Michels, Senior Vice President and General Manager of ANADIGICS' Broadband Business, reports, "ANADIGICS' AIT1032 is a complete RF tuner solution which employs such a high degree of integration that it significantly reduces the amount of external circuitry required, while at the same time providing a robust, high-performance solution that minimizes sensitivity to board layout variations. As the industry moves toward a fully digital video delivery, the performance of this double conversion tuner will enable set-top box designers to make the transition from analog to digital architectures without dramatically changing their product designs."

The AIT1032 provides two 45 MHz IF outputs, one for analog signals and one for digital signals. The digital output offers 78dB (typ) conversion gain, with an adjustable IF amplifier stage having 45dB of gain control range. The analog output provides 65dB conversion gain via a fixed IF output amplifier. The single RF input to the device contains a low noise amplifier with 35dB of gain control range. The device includes on-chip oscillator tank circuits that reduce component count and eliminate the need for any post-assembly manual adjustments. The AIT1032 is optimized to avoid interference in MoCA-enabled applications

The AIT1032 operates from a single +5V supply and is available with a full reference design. Offered in a 7mm x 7mm x 1 mm 48-pin surface mount package, it is available now in quantities of 5,000 units.

Read more about Anadigics >> <http://www.bt2000.co.uk/page3.htm>