

UWB for WLAN

The CWAVE (Consumer Wireless Audio-Video Entertainment) Alliance was formed to focus on the intelligent distribution of wireless HDTV, DVI, HDMI and 1394 video connectivity.

Gbit data rates can be delivered within WPANs using the PLK23300-EVK evaluation kit from **Pulse-LINK** (www.pulselink.net).

The company's CWave UWB architecture is less complex than MB-OFDM, which requires 128 Fourier transforms to be frequency-hopped over three bands. The UWB signal is derived from a continuous frequency waveform phase-shifted to produce RF emissions that are filtered to meet the UWB regulatory mask, in contrast to the traditional impulse architecture of DS-UWB architectures.

CWave is a low power, low complexity architecture which can translate easily, according to the company, to low-cost implementations in CMOS or SiGe. It does not use analogue mixers or local oscillators, there is no up-conversion or down-conversion and there is a low-power, high-bandwidth ADC with a dynamic range over 40dB. The variable spreading codes yield high data rates at short range. The signal gain can be increased by more than 25dB for longer transmission ranges at lower data rates.

The evaluation kit includes up to four UWB transceiver radios, supporting multi pico-net operation and diagnostic software.

A Gigabit CWave UWB chipset will be released later this year.

Boa diag

By removing the need for board swapping, XJTAG and XJIO board reduction can reduce diagnosis on failed boards by 50 per cent. It can be used with custom test jigs, and can be used with the System to test JTAG including BGA and SDRAMs, Ethernet interfaces, flash memory and microprocessors.

The board has 20 pins and can be expanded into 10 boards together. It can be used with large test circuits with large test network cards, for analogue I/Os (e.g. for to expand test capabilities for rail level verification used with non-JTAG).

The XJIO board can be used to set up the test

Mobil

Mobile phone revenue is expected to not recover to the 2009 level, warns I-Suppli. A slowdown in growth is expected and a lower unit price is expected, driven only by replacement sales or subscription. Revenue rose 30 per cent, but fell to a pinnacle as growth slowed to 4.9 per cent growth in 2008. 850million units. Forecasted increase by 40million