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EETimes Europe Newsletter - January 06, 2012

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News

PicoChip bought by Mindspeed for up to \$75 million

January 06, 2012



Mindspeed Technologies, a fabless networking chip company has agreed to acquire PicoChip Ltd, a provider of chipsets for cellular communications such as femtocell basestations, for \$51.8 million.

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Testronic Labs selected as Qi Interoperability testing center

January 06, 2012

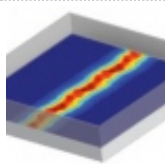


The Wireless Power Consortium (WPC) has selected Testronic Labs, a leader in quality assurance and localization services for film and television, games, websites, hardware, and software, as the Qi wireless charging interoperability testing center.

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Researchers create a silicon wire 4 atoms wide, 1 atom tall

January 06, 2012



The smallest wires ever developed in silicon, just one atom tall and four atoms wide, have been shown by a team of researchers from the University of New South Wales, Melbourne University and Purdue University to have the same current-carrying capability as copper wires. Experiments and atom-by-atom ...

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JEDEC publishes Wide I/O mobile DRAM standard enabling chip-level 3D stacking with TSVs

January 06, 2012



JEDEC Solid State Technology Association has announced a new standard for Wide I/O mobile DRAM: JESD229 Wide I/O Single Data Rate (SDR). The new standard is considered a breakthrough technology that will meet industry demands for increased levels of integration as well as improved bandwidth, latency, ...

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Low phase noise frequency synthesizers for RF applications

January 04, 2012



In modern RF communication systems, signal integrity is of prime importance. To meet the system requirements, amplifiers, mixers and modulators must have a low noise figure and low distortion products.

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NEW PRODUCTS

- ▶ Dual-core gyroscope handles smart user interface and image stabilization in phones and tablets
- ▶ Clock oscillator has a phase noise of -100 dBc/Hz at 10Hz offset for audio equipment
- ▶ Plastic USB connections for harsh environments
- ▶ Dual image sensor stereo camera reference design
- ▶ High-speed inter-chip compliance test software for real-time oscilloscopes
- ▶ Metal pushbutton switches feature abrasion-resistant ceramic actuator face
- ▶ LED floodlight uses 60% less energy than equivalent metal halide lamp
- ▶ Ultra-flat PCB process for high parallel vertical probe card applications
- ▶ PLL synthesizers deliver high flexibility and phase noise performance

[▶ See all news](#)

TECHNICAL PAPERS

- ▶ Combining Boundary Scan and JTAG Emulation for advanced structural Test and Diagnostics
- ▶ Safety requirements for board-mounted DC/DC converters
- ▶ Reality Check: A Guide to Understanding Optimized Processor Cores

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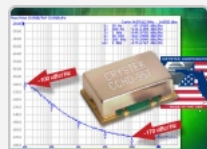
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New Products

Clock oscillator has a phase noise of -100 dBc/Hz at 10Hz offset for audio equipment

January 06, 2012 | Julien Happich | 222910692



Crystek has launched the CCHD-957, a new ultra-low phase noise HCMOS clock oscillator with standby mode, featuring an extremely low close-in phase noise of -100 dBc/Hz at 10Hz offset and a typical noise floor of -170 dBc/Hz at 100kHz offset. This performance makes Crystek's HCMOS Clock Oscillator family suitable for use in applications such as DACs, ADCs, digital audio broadcasting and professional CD audio equipment.

When placed in disable mode, the CCHD-957's internal oscillator is completely shut down and its output buffer is placed in tri-state. The device is housed in a 9x14mm SMT package and operates with a +3.3V power supply consuming 15mA of current. Stability is rated at 20-50ppm (0°C to +70°C) and ±25-50ppm (-40°C to +85°C). The CCHD-957 generates frequencies between 10 and 50MHz. Its output driver is capable of driving ±24mA, translating to a rise/fall time of about 3ns maximum at 20% to 80% Vcc with a 15pF load.

Visit Crystek at www.crystek.com

RELATED NEWS

- » PLL synthesisers deliver high flexibility and phase noise performance
- » Toolset eases software porting to Tensilica-based multicore SOCs
- » Digital power offers system-level benefits in motherboards from Gigabyte
- » Sensing electrical potentials for touchless control
- » Crystal oscillator supports 19.2 to 52MHz over -40 to 105°C
- » Aalto University researchers create an almost noiseless nanomechanical microwave amplifier
- » GUI-based design tool for digital controllers configures more than 60 power supply parameters
- » Affordable table-top digital X-ray inspection system for every production
- » STMicroelectronics claims world's Smallest 3-axis digital gyroscope
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- » Sony game exec spells out chip needs
- » Cree grants 5 LED lighting manufacturers licenses to some of its patents
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Low Phase Noise Frequency Synthesizers for RF Applications



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