



TPCAST Partners with Lattice Semiconductor to Deliver an Immersive Wireless VR Experience

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TPCAST 2.0 Integrates Lattice's Wireless VR Video Chipset Allowing Consumers to Cut the Cord for an Untethered VR Experience

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- TPCAST and Lattice join in a collaborative partnership to deliver a wireless VR solution with WirelessHD® technology from Lattice's SiBEAM® Technology Group as well as Lattice's FPGA and ASSP products
- TPCAST 2.0 wireless protocol supports displays up to 4K resolution at 120Hz and simultaneous feedback control
- TPCAST's wireless VR upgrade kit for the HTC Vive takes full advantage of Lattice's WirelessHD video solution, which offers artifact-free video, ultra-low latency and robust tracking at 2160 x 1200 resolution at 90Hz

PORTLAND, Ore.--(BUSINESS WIRE)--Jan. 23, 2017-- [Lattice Semiconductor](#) (NASDAQ: LSCC), the leading provider of customizable smart connectivity solutions, and TPCAST announced an exclusive partnership to deliver wireless solutions for head mount display (HMD)-based VR systems. Lattice's WirelessHD® solution, along with a suite of FPGA and ASSP products, are offered exclusively in TPCAST's VR applications which require low latency, high bandwidth wireless video transmission.

TPCAST's protocol supports wireless transmission of HD display and feedback control for smart devices and computers. TPCAST's newly released TPCAST 2.0 protocol supports up to 4K resolution at 120Hz, enabling an immersive wireless VR experience with near-zero latency transmission for both the display and controllers.

The TPCAST wireless upgrade kit includes Lattice's [MOD6320-T/MOD6321-R WirelessHD modules](#) offering near-zero latency and robust non-line of sight (NLOS) performance ideal for VR applications. TPCAST's solution also features Lattice's [SiI9396](#) 600 MHz HDMI® bridge IC, [LatticeECP3](#) SERDES-based FPGA, and TPCAST 2.0 protocol and algorithm. Together, this robust solution supports wireless transmission of VR display resolution at 2160 x 1200 at 90Hz.

"Our partnership with TPCAST delivers optimized wireless video solutions, further validating our commitment to improving the virtual reality experience," said Cheng Hwee Chee, senior director of marketing, mobile and consumer division at Lattice Semiconductor. "Our WirelessHD technology allows VR enthusiasts to eliminate cables while maintaining high-quality and robust video connectivity, without sacrificing performance."

"When seeking a partner to collaborate on our wireless VR protocol TPCAST 2.0, Lattice's proven WirelessHD technology, coupled with Lattice's FPGA and ASSP products, was a natural fit," said Andrea Liu, marketing director at TPCAST. "Working with Lattice, we're able to deliver a truly unmatched VR experience with low latency, high robustness and high bandwidth video transmission. We look forward to continuing our work with Lattice to develop future wireless VR solutions."

Lattice brings to market a range of millimeter wave solutions for high-speed wireless video and data transfers. Grounded on years of market leadership, Lattice delivers multi-gigabit data rates with fast responding beam forming ensuring high quality, ultra-low latency interactive video experiences. Lattice's programmable logic devices are also used in many other VR and 360 camera applications such as display bridging, spatial and positional tracking and camera interface expansion.

About Lattice Semiconductor

Lattice Semiconductor (NASDAQ: LSCC) provides smart connectivity solutions powered by our low power FPGA, video ASSP, 60 GHz millimeter wave, and IP products to the consumer, communications, industrial, computing, and automotive markets worldwide. Our unwavering commitment to our customers enables them to accelerate their innovation, creating an ever better and more connected world.

For more information, visit www.latticesemi.com. You can also follow us via [LinkedIn](#), [Twitter](#), [Facebook](#), [YouTube](#) or [RSS](#).

About TPCAST

Beijing TPCAST Technologies Co., Ltd. (TPCAST) makes wireless PC VR come true for the first time in the world, and is a high tech enterprise with core independent intellectual property rights on bidirectional wireless display and feedback control protocol. For many years, TPCAST have been providing wireless display modules for TV, monitor, and car manufacturers. The core team members have more than 10 years' successful entrepreneur experience in graphics, video, internet, content operation, and smart home fields. For more information, please visit <http://www.tpcast.cn/>.

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