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## **TriQuint Semiconductor Ships Breakthrough Wireless MIMO Modules To Major Chip Manufacturer**

### **New WiFi Modules Offer Enhanced Performance, Range, High-Level Integration to Simplify Connectivity for High-Speed Wireless, Multi-Media Access**

**HILLSBORO, OR (USA) – January 8th, 2008** – TriQuint Semiconductor, Inc® (Nasdaq: TQNT), a leading RF front-end product manufacturer and foundry services provider, today announced that it is a key supplier of dual-band WiFi front-end modules (FEMs) being used by a major chip manufacturer. The modules support the customer's next-generation multiple-input, multiple-output (MIMO) 802.11n wireless connectivity. TriQuint's RF modules achieve new performance, distance and integration milestones, enabling significantly faster wireless connections and increased distance for consumers, as well as system design efficiencies for device vendors. At the Consumer Electronics Show (CES) this week, many computing products are being previewed with next-generation 802.11n WiFi connections, ranging from laptops and all-in-one PCs, to gaming devices and various home electronics. Devices using 802.11n (MIMO) technology offer consumers a performance leap compared to existing WLAN/WiFi systems. According to a report by octoScope\* in the August 15, 2007 EE Times magazine, data throughput as well as range in test 802.11n MIMO systems were significantly greater than in earlier 802.11a, b or g systems – in some situations more than five times better. The researchers declared such performance was 'more than adequate' for wireless HDTV\* service, as well as other data-intensive applications. TriQuint's modules play a critical role in the RF chipsets that make MIMO connectivity possible.

"We feel TriQuint's new modules deliver the best output power performance, the lowest current consumption for extending battery life and the best noise figure of any design being used by the customer," said Brian P. Balut, TriQuint Networks Vice President. "Many aspects of the product's design are unique; we have uncovered so many advantages that there's a patent pending."

Kevin Gallagher, TriQuint's Wireless LAN Product Marketing Manager, explained that the product's design approach is significant because TriQuint created something entirely using an E/D pHEMT gallium arsenide (GaAs) process that previously required multiple semiconductor technologies. The technology allowed TriQuint to integrate the power amplifier (PA), the switch, the low noise amplifier (LNA) and the bias network / controller into a single die.

"Not only have we integrated multiple components, we have reduced the size of the overall module while achieving best-in-class performance and power dissipation. TriQuint's advances have reduced the part count, simplified design, increased ruggedness and extended battery life — key considerations for laptop manufacturers," Mr. Gallagher said.

Further detailing the device's advantages, Mr. Gallagher stated that MIMO designs are crucial to achieving data rates that can significantly exceed today's upper limit of 54 MB/S in WiFi systems (802.11a, b, g). In existing designs, a single dual-band Receive (Rx) and Transmit (Tx) path is used for moving data across a wireless interface. TriQuint's new front-end module enables a size reduction and enhanced performance because all critical device functions are built into a single chip. By utilizing three modules in parallel within the RF front end, three receive and transmit '3x3' signal paths are available instead of one, enabling significantly higher data rates. The effect is similar to opening extra lanes on a freeway where more 'lanes' equals a faster commute. In the case of data, more signal paths translate into faster throughput.

"This new RF MIMO module is another example of the way TriQuint uses high-level integration to add value and improve overall system performance while addressing key system-level cost requirements," Mr. Balut said. "We're simplifying connectivity for manufacturers, which enables them to offer their customers enhanced performance and greater range through MIMO WLAN connections, delivering a more satisfying wireless Internet experience and easier access to multi-media content."

In a recent report, Strategy Analytics stated that WLAN / WiFi markets continue to grow at accelerated rates, expanding from 140 million shipments in 2005 to at least 276 million in 2007. The researchers also report that the market is expected to reach 600 million shipments annually by 2010. Consumer products benefiting from wireless broadband technology include laptops, PDAs, cellular phones and wireless game consoles.

The new TriQuint module covers the 2.4GHz and 5GHz frequency bands in the WiFi portion of RF solutions. Sample and pre-production levels of the devices (model SCM6M7010) have already been delivered; full production shipments are scheduled to ramp late first quarter, 2008.

For a detailed list of TriQuint products for WiFi, WiMAX, and other WLAN applications, visit [www.triquint.com](http://www.triquint.com) and register for new product details at [www.triquint.com/rf](http://www.triquint.com/rf).

\*Other names and brands may be claimed as the property of other holders.

### **FORWARD LOOKING STATEMENTS**

This TriQuint Semiconductor, Inc. (Nasdaq: TQNT) press release contains forward-looking statements made pursuant to the Safe Harbor provisions of the Private Securities Litigation Reform Act of 1995. Readers are cautioned that forward-looking statements involve risks and uncertainties. The cautionary statements made in this press release should be read as being applicable to all related statements wherever they appear. Statements containing such words as 'leading', 'first', 'exceptional', 'high efficiency', 'adding value', 'leading supplier', or similar terms are considered to contain uncertainty and are forward-looking statements. A number of factors affect TriQuint's operating results and could cause its actual future results to differ materially from any results indicated in this press release or in any other forward-looking statements made by, or on behalf of, TriQuint including, but not limited to: those associated with the unpredictability and volatility of customer acceptance of and demand for our products and technologies, the ability of our production facilities and those of our vendors to meet demand, the ability of our production facilities and those of our vendors to produce products with yields sufficient to maintain profitability, as well as the other "Risk Factors" set forth in TriQuint's most recent 10-Q report filed with the Securities and Exchange Commission. This and other reports can be found on the SEC web site, [www.sec.gov](http://www.sec.gov). A reader of this release should understand that these and other risks could cause actual results to differ materially from expectations expressed / implied in forward-looking statements.

### **FACTS ABOUT TRIQUINT**

Founded in 1985, we "Connect the Digital World to the Global Network"™ by supplying high performance RF modules, components and foundry services to the world's leading communications companies. Specifically, TriQuint supplies products to four out of the top five cellular handset manufacturers, and is a leading gallium arsenide (GaAs) supplier to major defense and space contractors. TriQuint creates standard and custom products using advanced processes that include gallium arsenide, surface acoustic wave (SAW) and bulk acoustic wave (BAW) technologies to serve diverse markets including wireless handsets, base stations, broadband communications and military. TriQuint is also lead researcher in a 3-year DARPA program to develop advanced gallium nitride (GaN) amplifiers. TriQuint, as named by Strategy Analytics in August 2007, is the number-three worldwide leader in GaAs devices and the world's largest commercial GaAs foundry. TriQuint has ISO9001 certified manufacturing facilities in Oregon, Texas, and Florida and a production plant in Costa Rica; design centers are located in North America and Germany. Visit TriQuint at [www.triquint.com/rf](http://www.triquint.com/rf) to register for our newsletters.

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