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TriQuint Unveils Disruptive Technology For Reaching New Cost Points In High Frequency Markets

Innovative Use of Optical Lithography Drives Cost Efficiency for High Frequency Millimeter-Wave Products

HILLSBORO, OR (USA) –January 22, 2008 – TriQuint Semiconductor, Inc (Nasdaq: TQNT), the world's largest GaAs foundry supplier, today unveiled TQP13-N, its latest high performance process technology for designing and manufacturing cost-effective, high frequency millimeter-wave products for the commercial marketplace. Designed using TriQuint's patented transistor technology, which replaces traditional E-beam with optical gate lithography, TQP13-N offers dramatic cost savings over current millimeter-wave technologies.

Historically, millimeter-wave applications, which operate in frequencies up to 95GHz, have been limited to military and other low volume products due to high cost. The introduction of TriQuint's TQP13-N process can broaden the market for higher frequency applications by offering manufacturers a cost-effective solution for high volume millimeter wave products. Mobile satellite TV, WirelessHD™ and Adaptive Cruise Control (ACC) are examples of millimeter-wave applications which could be built using TQP13-N. Gartner, Inc, a research and advisory firm, notes the global penetration rate for ACC is just one percent today. However, by 2015, Gartner expects more than half of all new cars will be fitted with ACC or some variant.*

According to Frost & Sullivan Program Manager Sandeep Kar, "Over 40 percent of all minivans, full-size SUVs, and luxury SUVs manufactured in the last two years featured Rear Seat Entertainment systems or LCD screens, providing a broad customer base capable of integrating aftermarket mobile satellite television systems."

Mike Peters, Director of Marketing for TriQuint's Commercial Foundry said "High frequency applications have been considered too expensive for use in commercial markets. With TQP13-N, TriQuint is offering a disruptive new technology at a price point that can drive the volume needed to be successful. TQP13-N, together with TriQuint's superior design tools, application support and long standing expertise as a GaAs foundry supplier, offers our customers the opportunity to broaden their presence in existing markets and develop innovative new uses for millimeter-wave applications."

Process Information
TriQuint's TQP13-N technology is enabled by a unique, low-cost 150mm GaAs wafer manufacturing process. It incorporates a highly repeatable optically defined 0.13um self-aligned gate pHEMT FET using a highly reliable refractory gate metal system, coupled with high density capacitors, epitaxial and nichrome resistors, and two layers of gold interconnect. The use of optically defined gates greatly reduces the cost of production relative to similar processes based on E-beam gate lithography.

Process Summary and Specifications

Availability
The process is in production and device samples and design kits are available now. For additional information about TQP13-N or TriQuint's other Commercial Foundry Products, please contact your TriQuint sales representative or email foundryinfo@tqs.com.

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 'high growth markets', 'broaden the market', 'cost effective', 'high volume', 'disruptive new technology', 'greatly reduces' 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. 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 to register for our newsletters.

* Gartner Inc. Dataquest Insight: Active Safety Electronics Will Make Cars Smarter and Safer, by Mike Williams. Publication Date: 25 June 2007 ID Number: G00146435

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