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TriQuint Releases 0.15um Optical pHEMT Process Technology Enabling Cost Effective Millimeter Wave Applications

HILLSBORO, Oregon (USA) – September 22, 2010 –TriQuint Semiconductor, Inc. (NASDAQ: TQNT), a leading RF front-end product manufacturer and foundry services provider, today announced the release of its latest 150mm Gallium Arsenide (GaAs) commercial foundry process, TQP15, to full production. TQP15 is targeted at the Ka-band segment and is designed for cost-effectively building millimeter wave (mmWave) MMICs for applications such as VSAT, satellite communications and point to point radios.

Manufactured in TriQuint's high volume GaAs fabrication facility in Hillsboro, Oregon, TQP15 is the latest offering in TriQuint's well-established Pseudomorphic High Electron Mobility Transistor (pHEMT) process portfolio. TQP15 utilizes optical lithography to reduce cost when compared to traditional E-beam based solutions. It also incorporates refractory gate metal architecture which does not exhibit the standard metal gate sinking failure mechanism of non-refractory gate pHEMT processes.

"The TQP15 process leverages TriQuint's mature manufacturing capabilities used in the production of millions of pHEMT-based wafers," said Steve Grant, Vice President of Global Operations at TriQuint. "Customers can be confident TQP15 benefits from the stability of the base technology. And it is cost-effective because of the innovative use of optical lithography."

Throughout the development cycle, the process has been made available to select customer designers to collect feedback and aid process characterization.

Paul Blount, President of Custom MMIC Design Services, notes that "TQP15 offers us an economical high-frequency pHEMT process. We have successfully used TQP15 for high efficiency amplifiers and control functions up to K-band frequencies, and look forward to using this process to grow our product portfolio through Ka band."

"TriQuint is recognized as a technology leader with its broad portfolio of HBT, E-beam and optical pHEMT technologies. Adding TQP15 solidifies this position. Together with fully released optical pHEMT technologies, TQPED and TQP13-N, and the soon to be released TQP25 process, TriQuint continues to enable the commercialization of mmWave markets," said Mike Peters, Director of Marketing for Commercial Foundry at TriQuint.

TriQuint will host an interactive customer forum discussing TQP15's architecture, reliability and performance in conjunction with EuMW on September 27, 2010 from 5:30 – 6:30 PM CEST at the Renaissance Paris la Defense, Bagatelle / Tulle room.

Process Summary and Specifications

Parameter	TQP15
Gate Length (um)	0.15
BV (V) (typ)	14
Vp (V)	-1.0
Idss (mA/mm)	380
Imax (mA/mm)	580
Ft Peak (GHz)	80
Gm @ Idss (mS/mm)	550
NF @15GHz (dB)	0.6
Power Density @ 21 GHz (mW/mm)	>700

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 'cost-effectively', 'mature', 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
TriQuint Semiconductor (NASDAQ: TQNT) celebrates its 25th anniversary in 2010 as a leading global provider of innovative RF solutions and foundry services for the world’s leading communications, defense and aerospace companies. People and organizations around the world need real-time, all-the-time connections; TriQuint products help reduce the cost and increase the performance of connected mobile devices and the networks that deliver critical voice, data and video communications. With the industry’s broadest technology portfolio, recognized R&D leadership, and expertise in high-volume manufacturing, TriQuint creates standard and custom products using gallium arsenide (GaAs), gallium nitride (GaN), surface acoustic wave (SAW) and bulk acoustic wave (BAW) technologies. The company has ISO9001-certified manufacturing facilities in the U.S., production in Costa Rica, and design centers in North America and Germany. For more information, visit www.triquint.com.

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Mike Peters
Director of Marketing, Commercial Foundry
TriQuint Semiconductor, Inc.
Tel: +1.503.615.9272
Mobile: +1.503.806.4216
E-mail: mpeters@tqs.com

Media Contact:
Shannon Rudd
Strategic MarCom Manager
TriQuint Semiconductor, Inc
Tel: +1.503.615.9407
Mobile: +1.503.750.3290
E-mail: srudd@tqs.com