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For Immediate Release

QP Semiconductor Announces Qualified Replacements for the Philips 82Sxxx Bipolar PROMs

QP Engineering Team Redesigns and Reengineers SMD Replacement Parts

SANTA CLARA, Calif., — October 22, 2007 — QP Semiconductor today announced that the Defense Supply Center, Columbus (DSCC) has approved the company's newly reengineered and redesigned versions of the obsolete Phillips 82S123A (5962-8670301xx) and 82S129A (5962-8778802xx). While both new products are in production today, other devices in the same field programmable read only memory family will be released by the second half of 2008.

"This is a major milestone for our design and manufacturing teams," said John Stannard, president, "and we are happy to be able to offer a part that is once again in high demand by our customers." He adds, "This was a special achievement because re-engineering the programming technique was essential to the redesign and our teams painstakingly worked together to make that happen."

The 82S123A is a 32 by 8 PROM with tri-state outputs and the 82S129A is a 256 by 8 PROM also with tri-state outputs. Packaging is consistent with the original field programmable devices: ceramic packages in 16 pin DIP or 16 pin flatpack. The QP82Sxxx's are fabricated on a 1.5 - micron bipolar process offering high speed, low power consumption, and high-noise immunity. The one time programmable (OTP) memory uses the Zener-zap programming technique developed in the 1980s to replace nickel chromium wire fuses and to overcome the problems associated with NiCr resistance wire fuses – both in manufacturing and in terms of reliability. The Zener zap technology has been proven reliable in numerous applications for over 2 decades.

Each memory cell is addressable and is permanently programmed when the Zener diode forming the memory element is selectively coupled to a programming voltage which exceeds the reverse breakdown voltage of the zener. Like the original, the QP82Sxxx family offers ease of programming using the same programming algorithms and tools as the original Philips devices.

Coming in the near future are:

- QP82S130A (M38510/20403) a 512 by 4 PROM with open collector outputs
- QP82S131A (M38510/20404) a 512 by 4 PROM with tri-state outputs
- QP82S141 (M38510/20802) a 512 by 8 PROM with tri-state outputs
- QP82S181A (5962-0320201xxx and M38510/20909) a 1K by 8 PROM with tri-state outputs
- QP82S185A (M38510/20910) a 2K by 4 PROM with tri-state outputs
- QP82S191A (M38510/21004) a 2K by 8 PROM with tri-state outputs

The 82Sxxx PROM family is supported by several programmers. QP Semiconductor recommends the Data I/O Unisite programmer.

For pricing, please contact QP Semiconductor at www.qpsemi.com.

About QP Semiconductor

QP Semiconductor is a privately held California company founded in 1985. The company was initially formed to provide semiconductor assembly, electrical test and qualification services to the military, aerospace and high reliability industries. Over the last seven years, the company has evolved into a true fabless semiconductor company that designs, re-engineers and provides a full range of manufacturing capabilities to extend the life of classic ICs for a host of mission-critical programs. The company focuses on providing replacement hermetic parts for DMS, (Diminished Manufacturing Sources) and EOL (End of Life) products.

QP Semiconductor ranks today as one of the largest fabless manufacturers of high-reliability hermetic ICs for military & aerospace systems. The company provides over 11% of all QML part numbers listed by the Defense Supply Center, Columbus (DSCC).

QP Semiconductor is headquartered in Santa Clara, California with sales representation throughout the world. For more information, please visit www.qpsemi.com.

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