Supertex inc. News Release

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Corporate Headquarters:
Jim Adams
Manager, Marketing Communications
408/222-4810
jima@supertex.com

SUPERTEX PD CONTROLLER IMPLEMENTS IEEE802.3af STANDARD FOR POWER-OVER-ETHERNET (PoE)

HV110 Ensures Compliance and Includes Additional Protections

SUNNYVALE, Calif., November 4, 2003 - Supertex Inc. (NASDAQ: SUPX) today introduced HV110, a Powered Device (PD) controller for Power-over-Ethernet (PoE) applications. HV110 represents the most complete implementation of protections, outlined in the IEEE802.3af standard available today in a PD controller. In addition to the standard inrush limiting and voltage supervisory/enable functions common to PD controllers, HV110 offers circuit breaker functionality, protection during second inrush, voltage foldback-on-overload, minimum current timeout, thermal protection, open drain PWRGD and auto-restart.

HV110 is a single chip PD controller for interfacing Power Sourcing Equipment (PSE) and PDs through standard Ethernet connections. The IC is fully compliant with IEEE 802.3af standards, including thresholds and timers and is ideal for applications in IP phones, wireless access points, PDAs, switches and security devices. HV110 avoids reset and lockup issues at higher temperatures associated with competitive devices in SO-8 packages by utilizing a thermally rugged DPAK-5 package and leaving the rarely used functions such as *Classification* to low cost external circuitry. The *Classification* function can be handled very simply by using a current limiter IC from the Supertex CLX family.

HV110 is highly integrated, featuring an on board 350mA MOSFET utilizing *scaled current mirror technology* that eliminates the need for a sense resistor and provides highly accurate current sensing at both the high and low ends of the operating range. Features include 350mA current operating limit, over-current voltage fold-back to ensure IEEE802.3af compliance, 400mA inrush limit with 60msec timeout and a 400mA fast return-to limit fault current limit with 60msec timeout (circuit breaker functionality). Fabricated with a robust proven 90V process, HV110 maximizes noise immunity and eliminates the need for external transient voltage suppressors.

“HV110 ensures that the PD device is IEEE802.3af compliant, while providing reassurance that the system will be protected and operate correctly even if connected to a substandard or non-

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compliant PSE device," states David Schie, Vice President of Supertex. "This, in addition to the extra IEEE802.3af protections, timeouts, thermally rugged package and high voltage capability of HV110, results in lower system costs and greater dependability. The HV110 PD controller complements products, like HV9606 that are targeted at the power management needs of the emerging PoE market."

The HV110K4 is available in a DPAK-5 package that provides improved thermal resistance when compared to SO-8 based solutions. Samples are available from stock. Lead-time for production quantities is 6 weeks ARO. Pricing is US$1.19 in 1K quantities.

About Supertex

Supertex, Inc. is a publicly held mixed signal semiconductor manufacturer, focused in high voltage interface products for use in the telecommunications, networking systems, flat panel displays, medical and industrial electronics industries. Supertex product, corporate and financial information is readily available at www.supertex.com.

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