

October 16, 2012



Exar Delivers Power Distribution Switch For USB Applications

XRP2523 Provides Power Distribution for USB 3.0 and USB 2.0 Hubs

FREMONT, Calif., Oct. 16, 2012 /PRNewswire/ -- Exar Corporation (Nasdaq: EXAR) a leading provider of high performance analog mixed-signal and data management products, announced today the XRP2523, a next-generation single channel switch for USB V_{BUS} power distribution applications. The XRP2523 is compliant with the latest USB 3.0 specification as well as the established USB 2.0 specification. The new specification provides higher power to the downstream peripherals and enables more efficient battery charging over USB.

(Logo: <http://photos.prnewswire.com/prnh/20120716/SF41155LOGO>)

The XRP2523 manages all aspects of the V_{BUS} power distribution; providing a low on-resistance to meet the USB voltage regulation requirement, controlling transients during turn-on and hot plugging events and handling all fault conditions such as over current, short circuit or over temperature. The XRP2523 seamlessly interfaces with any USB controller through an active-high enable logic and channel fault flag.

"Issues revolving around the controlled power distribution and the protection of both the host power supply and the peripheral are key elements of designing reliable equipment with a USB compliant port," said Eric Pittana, Exar's Power Management Marketing Director. "Given the growing trend to power and charge portable devices via USB, we expect management of the extra power provided by a USB 3.0 compliant port and the increased reliability to be key requirements for numerous applications."

Product Details

The XRP2523 is a compact and cost effective single channel power distribution switch supporting a 3.2V to 6.5V input voltage range. With a low 85m Ω on-resistance, this device is capable of delivering up to 1.5A of continuous load current while meeting USB requirements for voltage drop and regulation. An integrated soft-start function controls turn-on transients. Built-in over current, a 1.6A over current limit, under voltage lockout (UVLO), reverse current, short circuit and over temperature features, protect both the hub and the peripheral from any abnormal operating conditions. False fault detections are masked from the USB controller through a 9ms blanking of the error flag. An active-high control logic also allows the controller full control on the XRP2523 on/off state.

Product Availability and Pricing

The XRP2523 is available now in volume quantities and comes standard in a RoHS compliant, halogen free 5-pin SOT-23 package. The 1,000-unit suggested retail

is \$0.69 each. Exar also offers an evaluation board for customers to quickly and easily test the features of the XRP2523.

Additional Information

Additional information on the XRP2523 is available [online](#).

Additional information on Exar's power management products is also available [online](#).

About Exar

Exar Corporation designs, develops and markets high performance, analog mixed-signal integrated circuits and advanced sub-system solutions for data communication, networking, storage, consumer, and industrial applications. Exar's product portfolio includes power management and connectivity components, communications products, and network security and storage optimization solutions. Exar has locations worldwide providing real-time customer support. For more information about Exar, visit <http://www.exar.com>.

SOURCE Exar Corporation