Hi-Speed USB Protectors Deliver Automotive-Grade Protection for Mobile Connectivity

Maxim Integrated Products introduces the MAX16919/MAX16969, Hi-Speed USB 2.0 automotive-grade protectors with iPod/iPhone fast-charge detection and USB host-charger detection for all USB gadgets. The protectors' fast-charge detection supports both Hi-Speed USB (480Mbps) and full-speed USB (12Mbps) operation, which conveniently lets consumers recharge their USB devices while driving. Additionally, the MAX16919/MAX16969 are the only fully integrated automotive-grade USB protectors; they combine several automotive-specific benefits, including short-to-battery and short-to-ground protections, which are required in today's harsh automotive environment. These devices are ideal for automotive radio, navigation, connectivity, and USB hub applications.

Maxim also offers system-level modeling and simulation support to achieve the best performance for customer-specific applications. The integrated host-charger detection circuitry and the adjustable current capability (3A) allow the USB peripheral devices to be charged quickly and efficiently. The industry's lowest on-resistance BUS switch minimizes line drop, ensuring USB compliance.

"Maxim is the industry leader for automotive-grade USB protection," said Kent Robinett, Managing Director at Maxim Integrated Products. "As the newest members of the company's automotive USB protection devices, the MAX16919/MAX16969 reflect the industry's advances in mobile integration within the automotive environment," Robinett added.

These new protection ICs complement the company's MAX16942E/MAX16943E/MAX16944E, the previously released automotive-grade USB protectors for automotive radio, navigation, connectivity, and USB hub applications.

The devices are available in a 16-pin QSOP package and operate over the -40°C to

+105°C temperature range.

For more information, go to www.maxim-ic.com [1].

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[1] http://www.maxim-ic.com