



Toshiba Electronics expands mobile peripheral device family with MIPI® display hub/bridge

Versatile, low-power device simplifies multiple display support and provides link to legacy interface standards

Düsseldorf, Germany, 14th July, 2010 – [Toshiba Electronics Europe](#) (TEE) has expanded its family of mobile peripheral device (MPD) ICs with a versatile, compact and low power product that can operate as a hub or a bridge in applications built around the latest high-speed serial MIPI® (Mobile Industry Processor Interface) standards.

When used as a hub, the TC358710XBG can multiply the number of available MIPI DSI (Display Serial Interface) ports. This simplifies, for example, the implementation of support for multiple displays. As a bridge the new device provides a link between legacy interface standards and MIPI interfaces, allowing designers to extend the lifetime of existing host and display systems.

In hub mode the TC358710XBG MPD can take a single DSI input and distribute the incoming DSI packets to up to two DSI ports and one shared DBI-B/C (Display Bus Interface Type B/C) output. When the device is set up in bridge mode it can take a parallel MIPI DBI-B from a host microcontroller and supply up to three different display devices over high-speed serial MIPI DSI links.

The TC358710XBG provides for selectable two-lane DSI or 8/16-bit DBI-B host interface support and operates with DSI link speeds up to 820MB/s per lane. An integrated DSI packet buffer accommodates packet sizes up to 4KB.

The MPD is provided in a compact 4mm x 4mm FBGA package and operates from a single 1.8V power supply. Low current operation and sleep and deep sleep options help to reduce power consumption, while the option of allocating pins from unused interfaces as GPIOs enhances design flexibility. Spread spectrum clock generation ensures low electromagnetic radiation (EMR).

MIPI® is a registered trademark of the MIPI Alliance Group.

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About Toshiba

Toshiba Electronics Europe (TEE) is the European electronic components business of Toshiba Corporation, which is ranked among the world's largest semiconductor vendors. TEE offers one of the industry's broadest IC and discrete product lines including high-end memory, microcontrollers, ASICs, ASSPs and display products for automotive, multimedia, industrial, telecoms and networking applications. The company also has a wide range of power semiconductor solutions. TEE was formed in 1973 in Neuss, Germany, providing design, manufacturing, marketing and sales and now has headquarters in Düsseldorf, Germany, with subsidiaries in France, Italy, Spain, Sweden and the United Kingdom. TEE employs approximately 300 people in Europe. Company president is Mr. Hitoshi Otsuka.

Toshiba Corporation is a world leader and innovator in pioneering high technology, a diversified manufacturer and marketer of advanced electronic and electrical products spanning information & communications systems; digital consumer products; electronic devices and components; power systems, including nuclear energy; industrial and social infrastructure systems; and home appliances. Founded in 1875, Toshiba today operates a global network of more than 740 companies, with 204,000 employees worldwide and annual sales surpassing US\$68 billion.

For more company information visit Toshiba's web site at www.toshiba-components.com

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