



Product Brief

MCCI[®] Wireless USB

Ubiquitous USB

Today, over 2 billion wired devices use USB for connectivity, making it the most popular technology to link PCs, digital cameras, printers, and consumer electronic devices. Combine this proven USB technology with WiMedia's Ultra-Wideband (UWB) Common Radio Platform, and you have a new dimension of convenience and performance with Wireless USB.

New technologies are notoriously difficult to bring to market unless you have a large team to study, architect, implement, and deploy them. It's often a risky discovery process, fraught with making decisions under the pressure of bringing a complex product to market in a short time.

The MCCI WUSB DataPump™ lets you take advantage of MCCI's investment in WUSB standards, technology, architecture, and software to bring WUSB products to market. The result is a product that not only meets the specifications of the USB Implementers Forum, but also meets high standards for a simple and reliable end user experience.

Reducing Risk

Delivering leading edge products can be risky. To be a leader means taking chances. MCCI strives to reduce this risk through continual interoperability testing with not only reference products, but a broad selection of market-available products as well as new ones as they appear.

Increasing Differentiation

MCCI's standard product enables you to customize the user experience to your business requirements. The software architecture is flexible enough to work in multiple product configurations. Product manufacturers need to differentiate for multiple product segments with little effort, including support for many embedded USB device classes.

MCCI's WUSB Multi-Function Support

Hardware and operating system independent, the MCCI architecture offers you the possibility of deploying WUSB across platforms from differing silicon vendors. The modular architecture will allow a trouble-free upgrade to wireless host support.

Because the wireless solution is based on the proven MCCI USB DataPump®, the same device protocols from the wired product are supported in the wireless product:

- Mass Storage
- Media Transfer Protocol
- PictBridge
- CDC WMC ACM/Obex/Device Mgmt
- CDC Ethernet Control Model
- MCPC Modem/AT Command
- Still Image
- Human Interface Device (HID)
- Audio
- Device Firmware Upgrade (DFU)

Simultaneous wired and wireless connectivity is supported, giving end users maximum flexibility and convenience. Also supported are cable and numeric association models as well as multiple configurations within a single product. To ensure maximum performance, data transfers are zero-copy. Connection to the WUSB controller can be done via SDIO, PIO, or wired USB.

Technical Support

Critical to success in deploying new technologies is a close working relationship between customer and vendor. MCCI support teams are located in Korea, Japan, Taiwan, Europe, and North America to help customer development teams work through the intricacies of creating leading edge products.

MCCI's engineers possess extensive knowledge of embedded systems and can provide insight into deep system issues — to maximize data throughput or minimize power consumption, for example. This knowledge extends beyond the software domain down to the silicon level.

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The world's most popular connectivity technology, now without the wires

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WUSB Validation Tools and Compatibility Testing

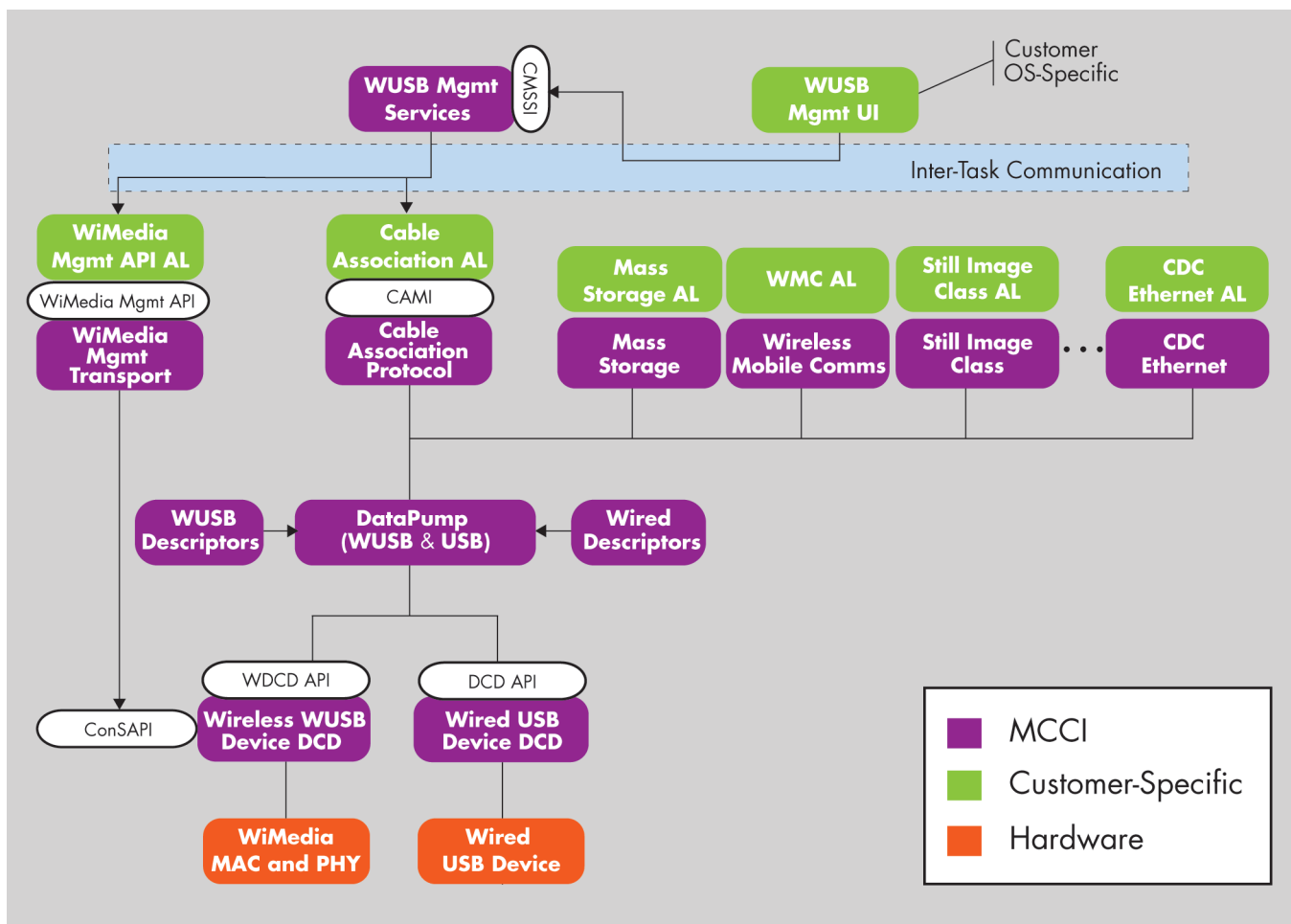
MCCI's wireless simulation and development test tools bring the full capability of wired MCCI verification technologies to WUSB, including PC-based MTP and PictBridge simulation.

MCCI performs multi-vendor WUSB hardware and host stack compatibility testing on Windows XP and Vista. This testing verifies the wired MCCI USB composite device and the composite PC host and class drivers in HWA/DWA and HWA/WHCI configurations. MCCI native composite USB devices are similarly tested.

Looking Ahead

Today's MCCI solution complies with Wireless USB specification revision 1.0, which was ratified in 2005 and was later updated. As new specification revisions are released, MCCI will provide product updates which may be added in a risk-free manner, due to the modular architecture. Release 1.1 of Wireless USB will add Near Field Communication as an association model, improve power efficiency, and add support for UWB upper bands at frequencies of 6GHz and above.

The proven MCCI USB DataPump is the foundation for MCCI's Wireless USB Solution



The Right Solution

Reduce risk and Total Cost of Ownership by working with MCCI to release products with Wireless USB. If you want to keep ahead of your competition and deliver high-quality products with excellent usability, talk to MCCI about partnering to succeed.

All specifications are correct as of the time of this writing, but are subject to change without notice. Although every effort is taken to ensure accuracy, MCCI assumes no responsibility for any errors in this document. MCCI, MCCI USB DataPump, MCCI Catena, TrueTask and TrueCard are registered trademarks of MCCI Corporation. MCCI Wombat and InstallRight Pro are trademarks of MCCI Corporation. All other trademarks are property of their respective owners.