

Wireless USB



- State of USB today
- Ultrawideband
- Wireless USB
 - Certified Wireless USB
 - CableFree USB
- Security and association
- What applications will come first



- USB is the world's most prolific connectivity interface
- There are +1B USB ports shipping annually
 - Printers, scanners, drives, digital still cameras, digital video cameras, music and video players, set-top boxes, web cameras, hubs and port extenders
- Most consumers actively utilize their USB ports
 - This utilization is the core of the USB value proposition



What is Ultrawideband?

- Ultrawideband is an emerging wireless technology that enables very high speeds at low power and short ranges
 - Short range means 10 meters and under
 - > Wireless Personal Area Network (WPAN)
 - High data rate means 100 Mbps to 1 Gbps
- Different than WiFi which delivers longer ranges (“whole house”) coverage—but at much high power
- Generically UWB is being used to enable wireless USB
 - UWB is to USB as WiFi is to Ethernet



- Certified Wireless USB
 - From USB-IF
 - New solution to deliver a wireless USB experience
 - Products announced for 1H07
- CableFree USB
 - Freescale semiconductor
 - Simple wireless extension of USB 2.0
 - No drivers, software or new hardware
 - Products announced for 2H06



Security & Association

- Role of security
 - Makes the wireless as secure as a wire
 - Done using strong encryption and key exchange
- Role of association
 - Answers the question “which devices talk to each other”
- Association models
 - Pre-association
 - Cable association
 - Numeric association
 - Near field association



What Applications and When?

- Early applications will be dongle and hub/port extenders
 - Basic consumer benefits
 - > Printer, scanner, drive can be located anywhere in the room
 - > Extension to AV racks
 - Dongles will dominate the market for 2007-2008
- Embedded and consumer application
 - Printers, scanners, external drives
 - Digital still cameras, camcorders, portable digital music players, portable digital video players, set-top boxes ...

