



WadiaStream USB

September 2009 – Wadia is proud to introduce WadiaStream USB technology, designed to address increasing interest in USB as a growing and important audiophile interface.

WadiaStream is a versatile USB interface designed specifically for applications that require isochronous audio data streaming. This solution is targeted to provide a transparent bridge to PC or other USB source media devices. WadiaStream is designed to enable a robust and musically compelling USB interface for use with a broad range of Wadia CD Players and Decoding Computers.

Enjoy exceptionally musical and engaging performances from any devices supporting the USB 2.0 audio interface. WadiaStream features a fully integrated USB transceiver and IEC60958 professional S/PDIF interface, AES/EBU and supports the maximum 12 Mb/s data rate (USB 2.0 Full Speed compliant). Equally important, WadiaStream presents isochronous output providing bit-accurate data, with optimum jitter suppression during playback.

Clock and timing errors are among the most difficult performance barriers when using USB as a musical source. During a two year comprehensive design and development process, Wadia engineers were able to work directly with the board level component manufacturers to further optimize internal clocking behavior on the critical USB receiver chips. This collaboration with our component suppliers has enabled a significantly better optimization of digital clock information for all USB sources as compared to the more commonly-used off-the-shelf USB input chipsets and generic USB input stages. By combining this optimized clock behavior with Wadia's proven Digimaster filter topology, we are able to provide world class time and phase correct musical output from the very high resolution digital music files that USB can deliver to Wadia Decoding Computers.

WadiaStream supports high-definition audio processing capability. Signal resolution and sampling rate can be configured up to 24 bit and 96 kHz respectively. This extended resolution makes WadiaStream ideal for both professional digital audio interface applications and the increasing demand of PC entertainment audio applications.

While designed to support the latest generation USB 2.0, WadiaStream is compatible with USB Audio Class Specification 1.0, enabling easy use with a wide range of legacy USB source devices. WadiaStream gives music lovers the friendliness of a virtual sound card in most Windows, Linux, and Mac OS devices with no-driver-needed (zero-driver-install) Plug and Play compatibility.

Thorough design involves four layer PCB layout, careful attention to accurate clocking, and fully isolated grounding topology, resulting in extremely low jitter and noise floor applications with virtually any USB source. Additionally, the USB power feature enables reliable anytime connection to the PC, independently of all external power conditions.

Wadia is proud of our first efforts in USB playback, and we are confident that we will continue to find new and improved ways to integrate other streaming audio sources into our decoding computers for very serious musical playback. The addition of WadiaStream USB input capabilities enables Wadia's CD Players and Decoding Computers to serve as the ideal digital hub for any music lover who wishes access to the most important and high performance digital sources available.

