

PRODUCT INFORMATION SHEET

QBD76 HD

Updated to include a new High Definition 192KHz capable USB interface the QBD76 HD is the latest edition in our hugely successful digital to analogue converter range. With the emphasis for high quality music now strongly focussed on computer downloads, the QBD76 HD allows you to take full advantage of this 192KHz high definition data.



The high definition USB input replaces the existing Bluetooth circuitry and uses a special high speed data connector where the existing Bluetooth antenna was fitted. A special USB 2.0 certified full data rate cable is provided to allow connection to a computer.

The existing USB input is still useable for CD quality playback giving the option for two simultaneous USB connections for both high definition and standard definition playback from the same DAC at the same time.

The digital design of the QBD76 HD from digital input, to the DAC outputs, is designed using the latest generation of field programmable gate array devices (FPGA), now with 1.25 million gates. The FPGA handles the switching of SPDIF inputs, all digital SPDIF decoding, digital PLL, RAM buffer controller, WTA filtering, and the 5th generation Pulse Array DAC. All of these functional blocks are designed at the gate level, for maximum performance. The HD USB input uses its own separate FPGA and features asynchronous USB technology isolating the digital clocks from the computer. Each sample rate clock is generated discretely using highly accurate crystal oscillators for optimum performance and ultra low jitter performance.

Proprietary USB driver software is provided removing the restrictions of current operating system audio playback. It also gives very easy setup and sample rate selection from 44KHz to 192KHz allowing for upsampling of standard definition music.

Available as both a conversion to an existing QBD76 or as a new product the QBD76 HD again redefines the future of digital music playback.

Product Specification

HARMONIC DISTORTION	< -103 dB (1kHz, 24-Bit @ 44.1KHz Sample Frequency) < -110dB (100Hz, 24-Bit @ 44.1KHz Sample Frequency)
SIGNAL TO NOISE RATIO	> 120dB
CHANNEL SEPARATION	> 125dB @ 1KHz
DYNAMIC RANGE	122dB
SWITCHABLE DIGITAL INPUTS	2 x 75Ω SP/DIF BNC Coax 2 x AES Balanced XLR Input 2 x Plastic fibre optic (TOSlink) 1 x USB (B type) 44-48KHz capable 1 x 4 pin high speed to USB (A type) 192KHz capable
ANALOGUE OUTPUTS	2 X RCA Phono 2 X BALANCED XLR
RAM BUFFER	3 Settings – off, minimum & maximum
PHASE SWITCH	2 Settings – Positive or Negative output phase
SAMPLE FREQUENCIES	44KHz – 96KHz Optical, AES 44KHz – 192KHz Coax Single Data, USB 176KHz & 192KHz Dual Cable Optical, AES, or Coax
OUTPUT MAX	6V rms. Balanced. 3V rms. unbalanced
OUTPUT IMPEDANCE	75Ω (short circuit protected)
DIMENSIONS IN MM	338 x 60 x 145mm (Width x Height x Depth)
WEIGHT	7 Kg



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