



# Crusher

## 5X Real-Time H.264 Encoder USB Bus Powered

### Features and Benefits

#### System

- Up to 5X faster than real-time encoding from file
- USB 2.0 bus powered
- Complete ready-to-manufacture Reference Design including
  - Schematics
  - BOM
  - Layout files
  - Gerbers
  - Low-cost single-sided 4-layer PCB design
- Software Development Kit (SDK)
  - Drivers
  - Sample GUI application
  - Source code
- Small form factor
  - 7.5cm x 2.5cm

#### H.264 Video

- Baseline Profile encoder (Level 3)
  - I and P frames
- Quarter-Pel Motion Estimation
- Multiple resolutions
  - QVGA and VGA (standard)
  - User defined up to 800x600 (SVGA)
- Bitrates: 64kbps – 8Mbps
- Support for 16x9 anamorphic source

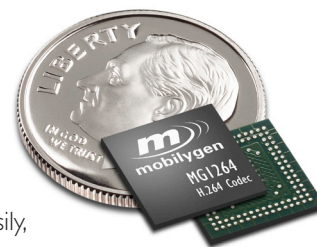
#### Compatibility

- Apple® video iPod®
- Sony® PSP®, PS3® and NW-A800®
- Archos®
- QuickTime®
- YouTube®

## Create high-quality H.264 video for mobile devices up to 5X faster than real-time

Crusher provides a simple and powerful hardware-accelerated drag-and-drop interface to convert any video file to the H.264 format. The Crusher Reference Design is based on the low-power MG1264 H.264 Codec, enabling a small USB peripheral form factor that is bus powered.

Faster than real-time operation allows users to quickly, and easily, create their own high-quality H.264 video that is compatible with QuickTime, video iPod, PSP, PS3, and other portable players that support H.264. Crusher's innovative system partitioning uses the personal computer to perform video decoding and audio transcoding, and uses the MG1264 H.264 Codec to accelerate the H.264 video encoding process by up to 5X real-time.



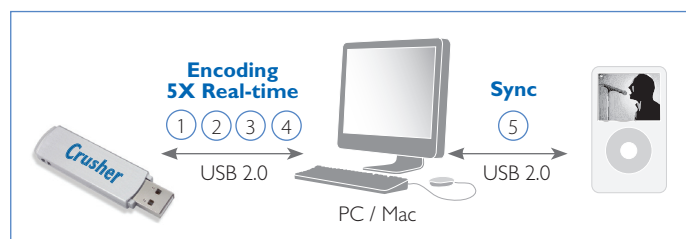
Crusher can work with any video format. The computer performs software decoding and sends raw YUV video over USB2.0 to the MG1264. High-quality compressed H.264 video is then returned to the computer.

### Complete ready-to-manufacture Reference Design

Included are production-proven schematics, gerber, and layout files enabling customers to modify the physical PCB design if desired. A complete Software Development Kit (SDK) provides optimized drivers, a sample GUI based application, and source code, that can be used to develop products for Windows, Mac, and Linux.

### About H.264

The H.264 video standard is gaining universal industry adoption, ranging from low-power portable media players and multimedia capable mobile phones, to HDTV broadcasting and Blu-ray™ and HD DVD™ players. H.264 advanced features provides equivalent video quality at half the bitrate of MPEG-2.



- 1 PC decodes video and audio
- 2 PC sends raw video to Crusher
- 3 PC encodes audio
- 4 Crusher encodes video & sends to PC
- 5 File ready to sync with compatible media player

# Crusher 5X Real-Time H.264 Encoder, USB Bus Powered



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