DIGITAL MEDIA
PRODUCT BRIEF

Tarari ®
The Acceleration Company

TARARI® ENCODER ACCELERATOR
FOR WINDOWS MEDIA®

The Tarari architecture is very nicely integrated with Microsoft's Windows media SDK. We wrote the code for our system, put Tarari inside the box and it was immediately accelerated. There was no work to do. It was very, very easy.

James Clarke
Chief Technology Officer
Root6

Tarari's Encoder Accelerator for Windows Media speeds up encoding of Windows Media 9 and SMPTE VC-1 video content. Encoding jobs which may have taken a day or more can now be accomplished within a few hours or less. Microsoft's superior Windows Media Video compression technology has made networked high definition video possible, now Tarari makes it practical.

The Tarari Encoder Accelerator provides seamless acceleration for any WMV and VC-1 encoding applications based on the Microsoft Windows Media Format SDK - without the need for any special scripting or digital glue. Simply install the Tarari Encoder Accelerator hardware and software and watch the encode process go faster!

Tarari's flexible architecture allows you to:
- Avoid schedule delays
- Reduce production costs
- Gain faster turnaround
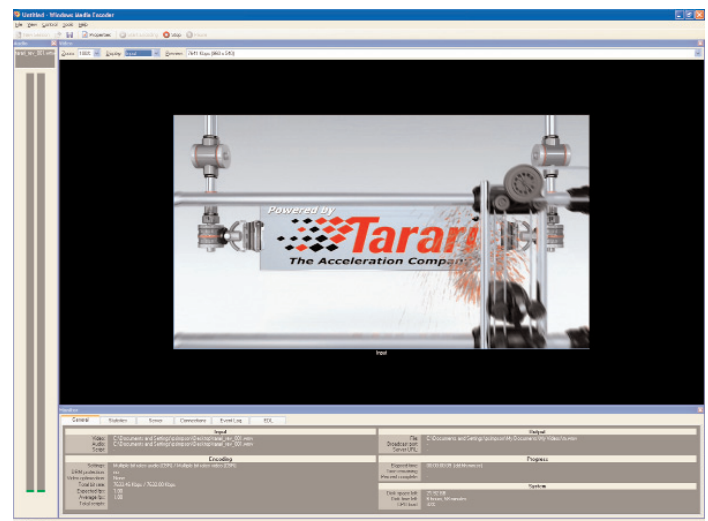- Achieve best quality and most efficient compression

Why are the Tarari Processors so fast?

Tarari processors have been designed from the ground up for processing Windows Media Video - High Definition with extreme acceleration. The Accelerator

sits on a 4.2Gbps PCI bus, communicating with main memory through multiple and interleaved DMA channels, and is capable of processing multiple video streams simultaneously. Since Tarari's technology is designed to perform functions such as motion estimation much faster than general-purpose CPUs, encoding happens faster – and by offloading those algorithms which take the most CPU cycles, Tarari technology frees the CPU for other tasks

Tarari Delivers the Highest Quality at the Fastest Speeds

Tarari has created a hardware version of the highest quality Microsoft video encoding algorithms to ensure you always get the highest quality encoded video

Tarari's Encoder Accelerators enable content producers and broadcasters to create and deliver high-quality WMV video efficiently.

output with the most efficient compression – even at accelerated encoding speeds. Perfect for Film and TV Post-Production, IPTV, VOD, and other demanding video environments.

FEATURES AT A GLANCE

Accelerated WMV and VC-1 Encoding

‣ Significantly faster encoding of Standard and High Definition Windows Media content means increased productivity, higher throughput, and cost savings in both capital and human resources.

Highest Quality

‣ Tarari supports the highest quality Windows Media encoding with optimum compression ratios, providing unparalleled value for customers.

Seamless Integration

‣ Tarari's solution integrates seamlessly with any Windows Media encoder application built on the Microsoft Windows Media format SDK and can easily be added to encoder systems with existing video I/O and ingest configurations.

Tarari Maximizes the Value of Encoder Servers

‣ A single Tarari board can process multiple jobs, so more material can be processed on a single server providing significant increases in productivity and cost savings.

SPECIFICATIONS

System Requirements

‣ Available 3.3 volt, 64Bit PCI slot
‣ 256MB RAM

Recommended Systems Requirements

‣ Dual Xeon 3.2 GHz system or equivalent hardware
‣ 512MB RAM

Content Processing Platform

‣ Full-height, short-card operating with 3.3v I/O signal levels on a PCI bus Rev. 2.2
‣ Recommend 64-bit/66MHz bus widths and speeds
‣ UL, CB, FCC Class A, CE and VCCI Certificates
‣ Windows Hardware Quality Labs (WHQL) Certification

Operating System and Software Support
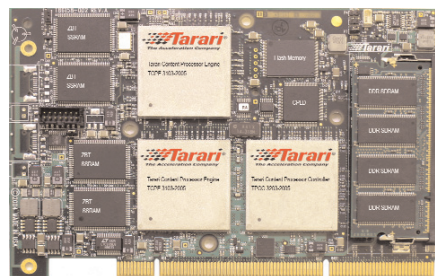
‣ Microsoft® Windows XP
‣ Microsoft® Windows 2003 Server

Encode Format support

‣ Up to 4K frame sizes
‣ WMV9 codec
‣ SMPTE VC-1 codec

Tarari Content Processors are hardware-based subsystem building blocks (silicon, boards) that snap into servers, appliances and network devices to allow control and inspection of complete messages and rich data at much greater rates than previously possible. Tarari Content Processors ensure that the information in the payloads of these messages can be intelligently accessed and processed while maintaining network speeds.

Tarari Windows Media Encoder Accelerator Codes:

CPX5140 – WITH COOLING FAN

TARARI, INC.
10908 Technology Place
San Diego, CA 92127-1874
858.385.5131 tel

For additional Information:
Visit: www.tarari.com or
Contact sales@tarari.com

Ask about other Tarari Agents

‣ Regular Expressions
‣ Compression / Decompression
‣ UUdecode and Base64 decoding
‣ Signature-based pattern matching
‣ Character Conversion UTF-8 to UTF-16

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