



SOLUTION BRIEF

Maximum Flexibility and Density for Video Applications

Industry-leading density and bandwidth in an open form factor

- SharpStreamer family GPU card delivers 44 channels of 1080p30 per card
- Delivers up to 176 channels of 1080p30 HD video in 1U or 2U server
- MaxCore™ platform holds any mix of compute and PCI Express cards in 15 slots
- Configurable with Intel® CPU, 10/100GE IO, media processing cards and 3rd party cards
- Achieves dramatically lower CapEx and OpEx

The *SharpStreamer™* video processing card from Artesyn Embedded Technologies brings a new level of acceleration for video applications. The add-on card is capable of 44 concurrent streams of 1080p30 video. As a solution which is compatible with multiple 1U and 2U servers, this translates to 176 concurrent streams.

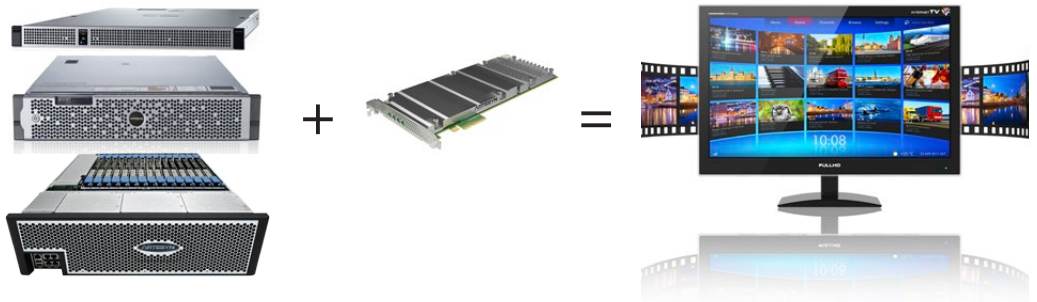
When combined with standard servers, designers have a flexible, standards-based platform for quickly building an economical and application focused appliance. The open architecture used in the *MaxCore™* 3U platform allows up to 15

standard PCI Express cards and is not limiting like other proprietary platforms. The MaxCore platform leverages the vast market of COTS PCI Express cards available from multiple vendors.

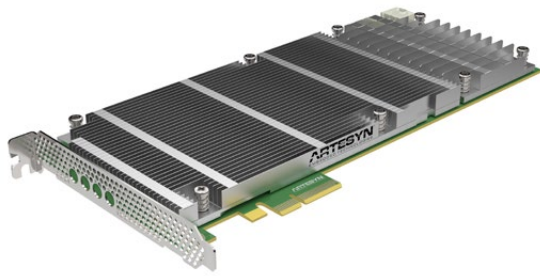
Designers can future-proof their offerings with new PCI Express cards including Artesyn cards based on Intel® low power or high performance 5th and 6th generation processors.

Video customers can implement their own software, utilize OpenStack™ interfaces, or use software components available through the Artesyn *ISV Ecosystem* program.

**1/10th OpEx Cost of Rack Mount Server Solutions
1 Server Instead of 42**



SharpStreamer™ Video Accelerator Card



The *SharpStreamer* media card is able to deliver up to 44 1080p30 HD streams per card resulting in significantly lower hardware costs per stream. The standard PCI Express format makes it compatible with industry standard 1U and 2U servers as well as the Artesyn *MaxCore* 3U platform, enabling developers to optimize performance and price at the platform level.

The simple Ethernet interface eases communication and development for software designers while providing sufficient bandwidth for SD and HD formats. Additional *SharpStreamer* family members offer low stream counts and support for transcoding and encoding higher resolution formats such as 4K.

The Artesyn *MaxCore* platform is ideal for high density transcoding. With 14 slots available for *SharpStreamer* media cards, it can achieve an industry-leading density of 616 HD 1080p streams in a 3U form factor. With 50Gbps bandwidth to all slots, the platform supports even UHD encoding requirements.

Artesyn products support all of your video processing needs. When compared to traditional servers running software based transcoders on Intel® E3 processors, *SharpStreamer* products offers dramatically reduced capital and operating costs.

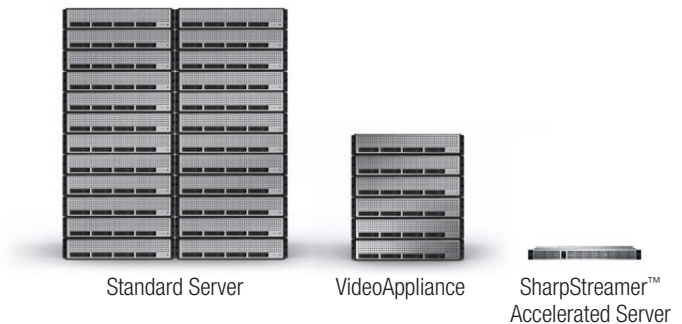
Call Artesyn today and see what we can do for your video delivery business.

MaxCore™ Platform in the Network for Video Transcoding



| USE CASE: Next-Day TV / Offline Transcode | Bare Metal Servers Required | Accelerated Servers Required |
|---|-----------------------------------|------------------------------------|
| Transcode 20 Hours of 30fps HD Video Content | 21 | 1 |
| Required Power (kWH) | 9.975 | 1.056 |
| CapEx Savings | | 80% less equipment |
| OpEx Savings | | 89% less power |

Comparable Video Performance



www.artesyn.com

+1 888 412 7832

© Copyright 2015 Artesyn Embedded Technologies, Inc. All rights reserved.

Artesyn Embedded Technologies, Artesyn and the Artesyn Embedded Technologies logo are trademarks and service marks of Artesyn Embedded Technologies, Inc. Intel and Intel Core are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. All other product or service names are the property of their respective owners. Reproduction of this material in any manner whatsoever without the express written permission of Artesyn is strictly forbidden. For full legal terms and conditions, please visit www.artesyn.com/about-us/legal-terms-and-conditions

MaxFlexDensityVideoApp-SolutionBrief-Aug2015

ARTESYN
EMBEDDED TECHNOLOGIES