

Competitive Benchmark – ThunderLink® NS 2102

OVERALL BEST STREAM COUNTS FOR MAC® WITH ATTO THUNDERLINK® NS 2102 THUNDERBOLT™ 2 TO 10 Gb ETHERNET ADAPTER VS. MYRICOM AND CHELSIO IN A SONNET THUNDERBOLT 2 CHASSIS

OVERVIEW

Video accessibility and manageability is becoming increasingly important to video editing workflows. Just as storage performance can dictate the success of any given project, a Thunderbolt™ 2 to 10GbE adapter can relay data over greater distances when compared to direct attached connectivity (without sacrificing speed). Testing using AJA System Test measurement tool provides actual performance in a video workflow. AJA's System Test tool shows which product provides the highest stream counts in several different video formats.

RESULTS

The ATTO ThunderLink® NS 2102 offers up to a 15% higher stream counts with NTSC DV25, 25% with DVC ProHD and 30% with uncompressed HD compared to competitors. This means user can utilize:

- Eighteen additional NTSC DV25 streams.
- Four additional DVC ProHD streams
- One additional stream of uncompressed high definition video.

CONFIGURATION

Test Tool

- AJA System Test

Platform

- Mac Pro 6.1 Six Core Intel Xeon Processor at 3.5Ghz
- 32GB Ram
- ATTO ThunderLink NS 2102 Thunderbolt 2 to Dual-Channel 10GbE
- Chelsio T420-CR 10GbE Dual-Channel 10GbE PCIe 2.0 Network Adapter in a Sonnet Thunderbolt 2 chassis
- Myricom 10G-PCIE2-8C2-2S Dual-Channel 10GbE PCIe 2.0 Network Adapter in a Sonnet Thunderbolt 2 chassis

Storage

- Micron SSD Raid 0 Array, P300

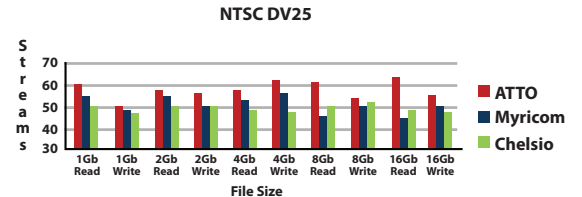
Operating System

- Mac OS X

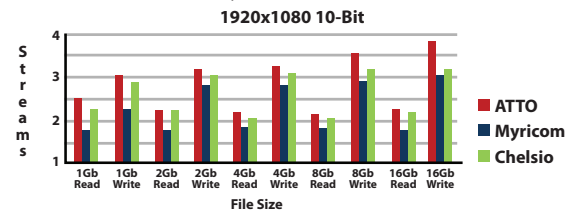
Video Stream Results

Comparitive AJA System Test Performance benchmark data:

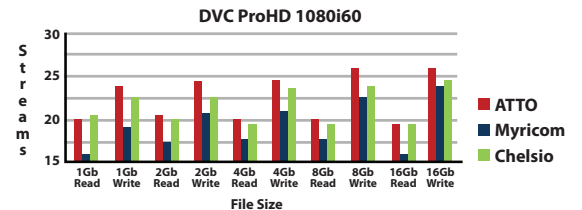
NTSC DV25 Stream Counts by Video Frame Size (Reads & Writes)



1920x1080 10-Bit Counts by Video Frame Size (Reads & Writes)



DVC ProHD 1080i60 Counts by Video Frame Size (Reads & Writes)



SUMMARY AND CONCLUSIONS

Whether NTSC DV25 or uncompressed HD, ATTO outperforms Myricom and Chelsio on the Mac platform. This benchmark shows that ATTO achieves higher stream counts over competing solutions not purpose made for this market space. When additional streams are available, performance and content production improves due to a greater concentration of source material available to editors at one time.

With 10 Gigabit Ethernet installed, companies have the capability to service workstations and clients in order to support applications such as streaming video, medical imaging, centralized applications, and high-end graphics. ATTO designed ThunderLink device to maintain high performance by utilizing exclusive performance and latency management features like Advanced Data Streaming (ADS™) to ensure consistent performance. These differentiators make ATTO the premier choice for high-performance networks.