

## DELL EMC ISILON SCALE-OUT STORAGE (NAS)

- Isilon F800
- Isilon H600



## ATTO FASTFRAME™ NICs

- FFRM NQ42 – Dual Port 40Gb Ethernet NIC
- FFRM NS/NT12 – Dual Port 10Gb Ethernet NIC (SFP+/RJ45)
- FFRM NS/NT11 – Single Port 40Gb Ethernet NIC (SFP+/RJ45)



## ATTO THUNDERLINK® THUNDERBOLT™ ADAPTERS

- TLNQ 3402 – Thunderbolt 3 to Dual Port 40Gb Ethernet
- TLNQ 3401 – Thunderbolt 3 to Single Port 40Gb Ethernet
- TLNS 3102 – Thunderbolt 3 to Dual Port 10Gb Ethernet
- TLNS 3101 – Thunderbolt 3 to Single Port 10Gb Ethernet



# Connecting Performance Workstations to Dell EMC Isilon Storage using ATTO FastFrame™ and ThunderLink® Network Connectivity Products

## PUSH YOUR NETWORKS STORAGE TO NEW LIMITS

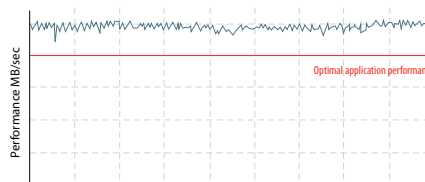
Specialized, compute intensive applications used for media & entertainment, manufacturing & design, oil & gas, game development, imaging or healthcare require workstations outfitted with powerful graphics, processors and memory. When using Scale-Out Network Attached Storage (NAS) like EMC Isilon, the high bandwidth, low latency benefits of the ATTO FastFrame™ NICs and ThunderLink® adapters are a must have.

ATTO Technology, Inc. has been developing high performance, low latency storage and network connectivity solutions for the most demanding workflows for 30 years. ATTO 40GbE and 10GbE FastFrame NICs and ThunderLink Thunderbolt™ to Ethernet adapters are designed to meet the ever growing performance needs of a scalable scale-out network storage environment.

ATTO Products feature:

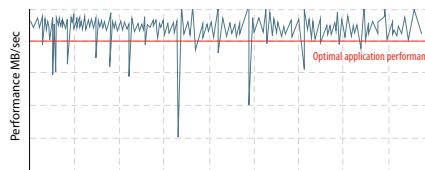
- ATTO Advanced Data Streaming (ADS™) Technology for controlled latency and acceleration of data.

ATTO Products with ADS Technology



Data transfer performance is smooth and reliable

Competitor's Product



Disrupted transfer with peaks and drops

Transfer rate dips below optimal performance levels

- ATTO FastFrame NICs have been tested and tuned for interoperability and performance with Isilon Scale-Out NAS and in conjunction with the latest in workstation technology by industry leading vendors.
- ATTO ThunderLink Thunderbolt™ to Ethernet adapters have been tested and tuned for interoperability and performance with Isilon Scale-Out NAS with the latest Thunderbolt enabled mobile workstations and All-in-Ones.
- ATTO develops and optimizes drivers for workstation operating systems providing the maximum throughput for today's most demanding applications.
- Working with Dell EMC Isilon, ATTO has developed performance optimizations that take advantage of the latest features deployed in the OneFS filesystem.



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## SUPPORTED OPERATING SYSTEMS

- Windows® 10, 7
- RedHat® Linux® 7.2 / 7.0
- Ubuntu 14.04 sp1
- macOS® 10.12x, and later

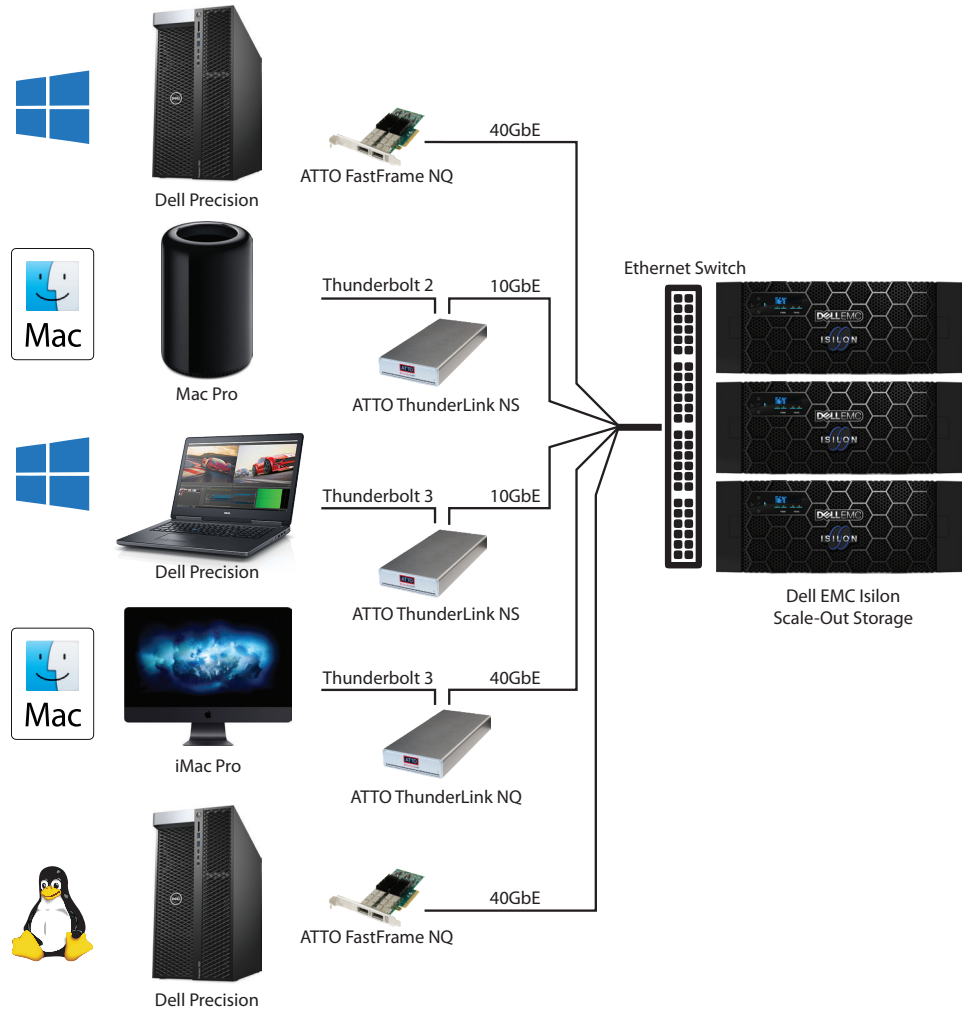
## HOW TO BUY

### Available through Dell S&P

| ATTO SKU      | DELL SKU |
|---------------|----------|
| TLNQ-3402-D00 | A9768584 |
| TLNQ-3401-D00 | A9768583 |
| TLNS-3102-D00 | A9768581 |
| TLNS-3101-D00 | A9768580 |

|               |          |
|---------------|----------|
| FFRM-NQ42-D00 | A9735161 |
| FFRM-NS12-D00 | A8511201 |
| FFRM-NT12-D00 | A9735136 |

Dell Sales 1.800.456.3355  
 ATTO Sales 1.716.691.1999



| ATTO Adapter | Iperf Rx    | Iperf Tx    | SMB READS                | SMB WRITES               |
|--------------|-------------|-------------|--------------------------|--------------------------|
| TLNQ 3401    | 2650 MB/sec | 2100 MB/sec | 2410 MB/sec <sup>1</sup> | 2000 MB/sec <sup>2</sup> |
| TLNS 2101    | 1120 MB/sec | 1100 MB/sec | 1020 MB/sec <sup>3</sup> | 760 MB/sec <sup>3</sup>  |
| FFRM NQ42    | 1800 MB/sec | 3600 MB/sec | 2330 MB/sec <sup>4</sup> | 1400 MB/sec <sup>4</sup> |
| FFRM NS12    | 1150 MB/sec | 860 MB/sec  | 1050 MB/sec <sup>4</sup> | 750 MB/sec <sup>4</sup>  |

<sup>1</sup> = Read tests run with AJA System Test in macOS® 10.13.3.  
<sup>2</sup> = Write tests running using dd in macOS 10.3.3  
<sup>3</sup> = Read and Write tests run with AJA System Test in macOS® 10.13.3  
<sup>4</sup> = Read and write tests run using AJA in Windows 10.

