

# REFERENCE GUIDE

Celerity HBAs are engineered differently and have an advantage over the leading competitor embedded directly in the processor's architecture. Every element of the design is selected for quality and speed. We start with a multi-core Fibre Channel ASIC supporting multiple dynamic data threads to provide incredible performance in keeping data flow at optimum levels. Adding our intelligent software driver stack further enhances our Celerity Fibre Channel HBAs by tuning to best optimize the data flow for your data patterns. It is no wonder that our HBAs are half the latency of our closest competitor and users continuously turn to ATTO to get the most out of their Fibre Channel infrastructure.

ATTO Celerity	Description	Broadcom	Marvel	ATTO Key Advantage
CTFC-641E-000	64Gb PCIe 4 x8 Single channel	LPe36000	QLE2840	<ul style="list-style-type: none"> <li>• ATTO Advanced Data Streaming (ADS)</li> <li>• Low Power Consumption</li> <li>• ATTO Multipath Director (MPD)</li> <li>• Load balancing &amp; Fault Tolerance</li> <li>• Made in the USA</li> <li>• US Based Tech Support</li> </ul> <p><b>ATTO vs Marvell (Qlogic)</b></p> <ul style="list-style-type: none"> <li>• 2.5X better Single Port IOP performance</li> <li>• 8X more Log-ins and Exchanges</li> <li>• 10M hours MBTF vs not published</li> <li>• Up 30% more throughput (MB/s)</li> </ul> <p>Management Tools</p> <ul style="list-style-type: none"> <li>• ATTO ConfigTool</li> <li>• ATTO vConfigTool</li> </ul>
CTFC-642E-000	64Gb PCIe 4 x8 Dual channel	LPe36002	QLE2842	
CTFC-321E-000	32Gb PCIe 3 x8 Single channel	LPe32000	QLE2740	
CTFC-321P-000	32Gb PCIe 4 x8 Single channel	LPe35000		
CTFC-322E-000	32Gb PCIe 3 x8 Dual channel	LPe32002	QLE2742	
CTFC-322P-000	32Gb PCIe 4 x8 Dual channel	LPe35002		
CTFC-324E-000	32Gb PCIe 3 x16 Quad channel		QLE2764	
CTFC-324P-000	32Gb PCIe 3 x16 Quad channel	LPe32004		
CTFC-161P-000	16Gb PCIe 3 x8 Single channel	LPe31000	QLE2690	
CTFC-162P-000	16Gb PCIe 3 x8 Dual channel	LPe31002	QLE2692	
CTFC-164P-000	16Gb PCIe 3 x8 Quad channel	LPe31004	QLE2694	
CTFC-81EN-000	8Gb PCIe 2 x8 Single channel			
CTFC-82EN-000	8Gb PCIe 2 x8 Dual channel		QLE2562	
CTFC-84EN-000	8Gb PCIe 2 x8 Quad channel		QLE2564L	

# GLOSSARY

ATTO

## About ATTO

For 35 years ATTO Technology, Inc. has been a global leader across IT and media & entertainment, specializing in network and storage connectivity and infrastructure solutions for the most data-intensive computing environments. ATTO works with customers and partners to deliver end-to-end solutions to better store, manage and deliver data, often as an extension of their design teams. ATTO manufactures host adapters, SmartNICs, storage appliances and controllers, intelligent bridges, Thunderbolt™ adapters, and software. ATTO solutions provide the highest level of storage connectivity performance for Fibre Channel, SAS, SATA, iSCSI, Ethernet, NVMe and Thunderbolt. ATTO is the Power Behind the Storage.

## How to Buy

**Channel Sales:** +1.716.691.1999 Ext. 240

**International Sales:** +1.716.691.1999 Ext. 239

**OEM Sales:** +1.716.691.1999 Ext. 241

**VAR + System Integrators:**

[www.attotech.com/howtobuy](http://www.attotech.com/howtobuy)

**Direct Sales:**

[www.attostore.com](http://www.attostore.com)

## Advanced Data Streaming (ADS™)

ATTO ADS is proprietary latency management technology built into all ATTO network and storage connectivity solutions. ADS works transparently to smooth data transfers through controlled acceleration. Data moves more efficiently giving ATTO users an unmistakable edge in total system performance.

## Multipath Director

ATTO Multipath Director enables failover and load balancing capabilities for high-availability storage. Load balancing across multiple paths increase overall system performance. It also can mix Windows, Mac and Linux workstations in a heterogeneous environment.

## ATTO ConfigTool™

Helps to customize the settings of your ATTO HBA to maximize performance of storage connection. Includes custom utility settings, advanced troubleshooting and monitoring and available for macOS, Windows and Linux.

## ATTO VConfigTool™

For VMware vCenter Server is a software plug-in that integrates HBA's into VMware virtual environments and includes ATTO Latency Scout to monitor I/O latency and isolate bottlenecks.