



MultiPath Director™ Reference Guide

MultiPath Director™ is a specialized multipathing driver exclusively for ATTO's Fibre Channel host bus adapters that enables Linux®, Mac® or Windows® servers and/or workstations to connect to enterprise-class storage.

Partner Certifications

| Storage Vendor | Storage Series | Celerity™ HBA | Mac OS® X ¹ | Windows® Workstation ¹ | Windows Server ¹ | Linux® ¹ | Interoperability Listing |
|-----------------------|------------------------|---------------|------------------------|-----------------------------------|-----------------------------|---------------------|--------------------------|
| Dot Hill® | Assured SAN® | 16Gb & 8Gb | X | X | | X | |
| EMC® | VNX/VNX2® | 16Gb & 8Gb | X | X | | | E-Labs |
| | VMAX® | 16Gb & 8Gb | X | X | | | |
| HP® | MSA | 16Gb & 8Gb | X | | | | SPOCK |
| | 3PAR | 8Gb | X | | | | |
| Hitachi Data Systems® | HUS/VM | 16Gb & 8Gb | X | X | X | X | |
| Huawei® | OceanStor | 8Gb | X | X | | X | |
| | Dorado | 8Gb | X | X | | X | |
| Infotrend® | EonStor | 16Gb & 8Gb | X | X | | X | |
| IBM® | DS Series | 8Gb | X | X | | X | SSIC (RPQ Req) |
| | Storwize® | 8Gb | X | | | | SSIC |
| NEC® | D Series M Series | 8Gb | X | | | X | |
| NetApp® | E-Series | 16Gb & 8Gb | X | X | X | X | IMT |
| | FAS Series | 8Gb | X | | | | PVT |
| Quantum® | StorNext® QXS/QX/QD | 16Gb & 8Gb | X | X | X | X | |

ATTO Celerity Fibre Channel HBA EMC, HP & Quantum SKUs

| HBA Type | Ports | Partner SKU |
|------------|-------|-----------------|
| EMC Select | | |
| 16Gb/s | 1 | F-CTFC-161E-M02 |
| 16Gb/s | 2 | F-CTFC-162E-M02 |
| 8Gb/s | 1 | F-CTFC-81EN-M02 |
| 8Gb/s | 2 | F-CTFC-82EN-M02 |
| 8Gb/s | 4 | F-CTFC-84EN-M02 |
| HP Vista | | |
| 8Gb/s | 1 | A706948 |
| 8Gb/s | 2 | A706947 |
| 8Gb/s | 4 | A706956 |
| Quantum | | |
| 16Gb/s | 1 | 9-03961-01 |
| 16Gb/s | 2 | 9-03961-02 |
| 8Gb/s | 1 | 9-03960-01 |
| 8Gb/s | 2 | 9-03960-02 |
| 8Gb/s | 4 | 9-03960-03 |

Certifications as of April 2015

[1] Visit <http://www.attotech.com/downloads.php> for specific OS compatibility



Hitachi Data Systems

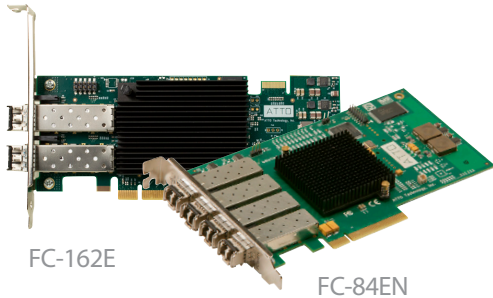




MultiPath Director™ Reference Guide

World's only solution that allows direct connectivity to enterprise storage for servers and workstations.

MultiPath Director™ is available exclusively with ATTO's Celerity Fibre Channel HBAs



FC-162E

FC-84EN

ATTO Celerity Host Bus Adapters

| Product Features | 162E | 161E | 84EN | 82EN | 81EN |
|------------------------------------|---------------------------|---------------------------|--|--|--|
| Part Number | CTFC-162E-000 | CTFC-161E-000 | CTFC-84EN-000 | CTFC-82EN-000 | CTFC-81EN-000 |
| Fibre Channel Ports | 2 | 1 | 4 | 2 | 1 |
| Max. Data Rate | 16Gb/s | 16Gb/s | 8Gb/s | 8Gb/s | 8Gb/s |
| Max. Transfer Rate | 3200MB/s | 1600MB/s | 3200MB/s | 1600MB/s | 800MB/s |
| Bus Type | PCIe 3.0 x8 | PCIe 3.0 x8 | PCIe 2.0 x8 | PCIe 2.0 x8 | PCIe 2.0 x8 |
| Auto Negotiation | 16Gb, 8Gb, 4Gb | 16Gb, 8Gb, 4Gb | 8Gb, 4Gb, 2Gb | 8Gb, 4Gb, 2Gb | 8Gb, 4Gb, 2Gb |
| Connector Type | Optical SFP+ LC | Optical SFP+ LC | Optical SFP+ LC | Optical SFP+ LC | Optical SFP+ LC |
| Max. Cable Length (OM3) | 150m - 8Gb 100m - 16Gb | 150m - 8Gb 100m - 16Gb | 500m - 2Gb 380m - 4Gb 150m - 8Gb | 500m - 2Gb 380m - 4Gb 150m - 8Gb | 500m - 2Gb 380m - 4Gb 150m - 8Gb |
| Low-Profile Form Factor | Yes | Yes | — | Yes | Yes |
| Developer's Kit* (Target Mode API) | Yes | Yes | Yes | Yes | Yes |
| Warranty | 3 year | 3 year | 3 year | 3 year | 3 year |

*Call for details

Competitive Comparison

| | Fibre Channel 8Gb & 16Gb HBAs | Fibre Channel 8Gb & 16Gb Switches | Advanced Data Streaming (ADS™) | Supports Heterogeneous Environments (Linux®, Mac® & Windows®) | Workstation & Server Connectivity to Enterprise Storage | MultiPath Director™ | MultiPath Director Advantages in Server Environment | |
|--------|-------------------------------|-----------------------------------|--------------------------------|---|---|---------------------|---|---|
| | | | | | | | Ease of Installation | Centralized Management |
| ATTO | Yes | Yes | Yes | Yes | Yes | Yes | Yes Don't have to be an expert | Yes One interface to manage the entire infrastructure |
| Qlogic | Yes | No | No | No | No | No | No Setting MPIO paths increases the administrative and management effort | No In mixed environments IT administrators need to manage two different interfaces |
| Emulex | Yes | No | No | No | No | No | | |