PRODUCT BRIEF

Purpose-built 100 Gbps adapter specifically optimized for highest AI/HPDA/HPC performance with the industry's best price/performance

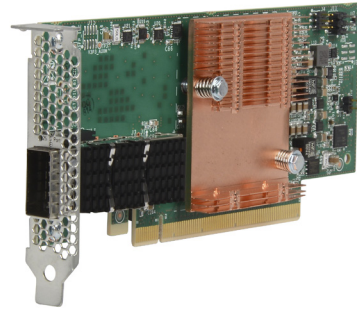**CORNELIS NETWORKS**

CORNELIS™ OMNI-PATH™ HOST FABRIC ADAPTER
CN-100HFA

Cornelis Networks provides the industry's leading host fabric adapter, cost-effectively delivering high bandwidth while incorporating advanced technologies focused on maximizing message rate while minimizing average and tail latency critical to application performance in High Performance Computing (HPC) environments.

CORNELIS OMNI-PATH SCALE-OUT INTERCONNECT

Advances in artificial intelligence, high performance data analytics, and traditional modeling and simulation environments, coupled with extremely capable processing and storage infrastructures, are driving unprecedented requirements on the scale-out interconnect. Cornelis Omni-Path interconnect is positioned to cost-effectively meet these key challenges.

ACCELERATE APPLICATION PERFORMANCE

Cornelis Omni-Path Host Fabric Adapters are designed to provide a perfect semantic match between the requirements of real-world applications and the scale-out fabric, maximizing scalability and performance at the industry's lowest price point.

These adapters ensure optimal application performance through delivery of

key efficiency features, including dispersive routing and congestion control, complemented by a unique sub-link layer architecture that enables Packet Integrity Protection (zero latency protection against bit transmission errors), and advanced Virtual Fabrics support, and they provide the functionality that actually makes a positive difference in manageability and application performance.

Specifications

Adapter Bandwidth	25 GB/s (100 Gbps per direction)
Form Factor	Low Profile
I/O Connector	QSFP28
Power W (Typ/Max) • Without optical transceiver/AOC • With power class 2 optical transceiver/AOC	7.4/11.7 9.2/13.8

Item Market Name	Item Number	Item Description
100HFA016LS	948159	Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Low Profile
100HFA016FS	945671	Omni-Path Host Fabric Interface Adapter 100 Series 1 Port PCIe x16 Standard

Safety

US/Canada	cTUVus NRTL 62368-1
Europe	TUV SUD EN 62368-1
International	CB Scheme: IEC 60950/62368-1

Emissions/Immunity

US/Canada	FCC Part 15, Subpart B, Class A, ICES-3(A)/NMB-3(A)
Europe	EN55032 Class A, EN55035, EN55024
Japan	VCCI, Class A
AS/NZ	AS/NZ CISPR 32, Class A
Korea	RRA/KC (KN32, KN35), Class A

Operating Conditions

Temperature	Operating: 0° to 55° C (derated 1C/175m above 900m) Storage: -40° to 70° C
Humidity	Operating: 5% to 85% non-condensing Storage: 5% to 95% non-condensing
Altitude	Operating: 0 – 3,200m Storage: 0 – 10,000m

Environmental

RoHS	RoHS II Directive 2011/65/EU
REACH	(EC) No 1907/2006