

HD Express®

PCIe® GEN 6 BACKPLANE INTERCONNECT SYSTEM

The HD Express® is a high-density, high-performance interconnect system designed to meet and exceed PCIe® Gen 6 electrical and mechanical requirements for high-end 85 Ω architectures.

- PCIe® Gen 6
- Price and performance scalability
- Modular construction with integrated guidance
- Highest density
- 85 Ω impedance



FEATURES

- 85 Ω impedance
- Ground structure on all 4 sides of the mating beams of each differential pair
- Highest density
- Scalable design
- 13.8 mil drill compliant pin
- Beam on blade
- Press-fit
- Die-cast guide module

BENEFITS

- Specifically designed to support PCIe® Gen 6 links
- Provides high signal isolation performance
- Highest density backplane product in the market
- Single Wafer design utilizing traditional design elements
- Proven press-fit technology
- Provides a complete solution for customer's unique requirements
- For additional margin and overall system cost savings
- Robust guidance features integrated into the connector design

TECHNICAL INFORMATION

MATERIAL

- Contact Finish Area: Gold
- Contact Base Metal: High performance Copper Alloy
- Housings: Glass Reinforced Polyester (LCP)

ELECTRICAL PERFORMANCE

- Rated Signal Contact Current Rating: 0.7 A
- Rated Voltage <30 V AC (RMS)
- Dielectric Withstanding Voltage: 500 V AC (RMS)
- Contact Resistance Change: 10 mΩ max.

MECHANICAL PERFORMANCE

- Wiping Length: 1.0 mm
- Gathering Ability: 1.0 mm X and 1.7 mm Y
- Durability: 200 Mating Cycles

APPROVALS AND CERTIFICATIONS

- UL 94 V-0 (pending approval)

PACKAGING

- PVC Trays (ESD)

ENVIRONMENTAL

- Operating Temperature Range: -40 °C to 85 °C

SPECIFICATIONS

- TB-2381 General Product Specification for HD Express® Product Family

TARGET MARKETS/APPLICATIONS



Servers
Storage
Supercomputers

PART NUMBERS

Description	Part Numbers
HD Express®, 4-Pair, 4-Column, Backplane Module	036-41A1-0BV
HD Express®, 4-Pair, 8-Column, Backplane Module	036-41C1-0BV
HD Express®, 4-Pair, 16-Column, Backplane Module	036-41G1-0BV
HD Express®, 4-Pair, 4-Column, Daughtercard Module	039-41A0-10V
HD Express®, 4-Pair, 8-Column, Daughtercard Module	039-41C0-10V
HD Express®, 4-Pair, 16-Column, Daughtercard Module	039-41G0-10V

Find part number details using the search box on www.amphenol-cs.com

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