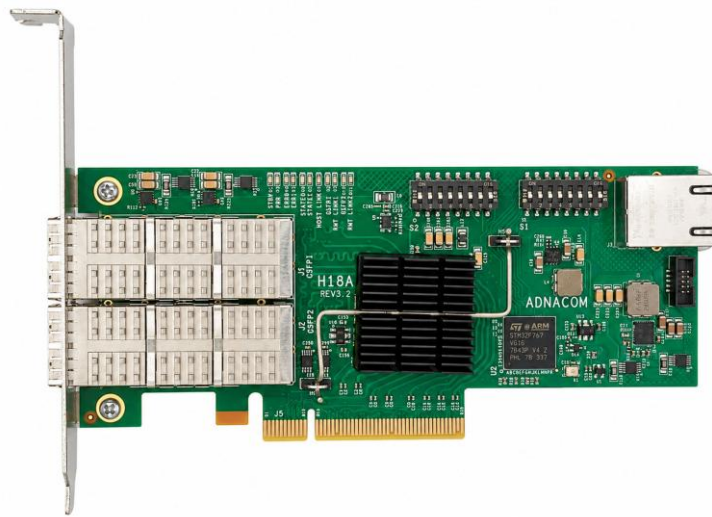


PCIe Gen 3 Host Adapter



Overview

The H18A is a PCIe Gen 3 host adapter intended to extend a computer's PCIe bus over one or two QSFP+ fiber-optic or copper cables. The adapter is based on a PCIe switch operating in transparent mode. No additional programming or drivers are required.

Product Features

- Cable data rate: up to 64 GT/s
- Operates with one or two QSFP+ cables to connect one, two, or four remote PCIe ports
- Standard pluggable QSFP+ transceivers and cables
- Supports Reset, Power On, and Wake signals with active optical cables (AOCs)
- Optical isolation with fiber-optic cables
- Transparent operation
- Web-based diagnostic interface
- Operating temperature: -40 °C to +85 °C

Specifications

Cable Interface	• PCIe Gen 3 • One x8 downstream port, 64 GT/s • Two x4 downstream ports, 32 GT/s per port • Four x2 downstream ports, 16 GT/s per port • Separate Refclk with No SSC (SRNS) architecture • 100 MHz constant-frequency clock
Cable Connectors	Two QSFP connectors
Cable Types	• QSFP+ active optical cable (AOC) • QSFP+ direct-attach cable (DAC)
Auxiliary Cable Signals	Reset, Power On, and Wake signals with AOCs
PCIe Switch	Broadcom PEX8718 • 8.0 GT/s, 16-lane PCIe Gen 3 switch • Spread-spectrum clock isolation
Diagnostic Interface	Configuration and status monitoring via a web interface
Form Factor	Low-profile card with a PCIe x8 edge connector
Dimensions	6.20 × 2.73 in (157 × 69 mm)
Brackets	Standard and low-profile brackets
Power Consumption	10 W maximum (without optical transceivers)
Operating Temperature	–40 °C to +85 °C with appropriate cables and airflow
Storage Temperature	–40 °C to +85 °C
Operating Humidity	10% to 90% relative humidity, non-condensing
Storage Humidity	5% to 95% relative humidity, non-condensing
Compliance	FCC, CE, RoHS

Ordering Information

Part Number	Description
H18A	• PCIe Gen 3 host adapter with a standard bracket • Low-profile bracket • Cables not included