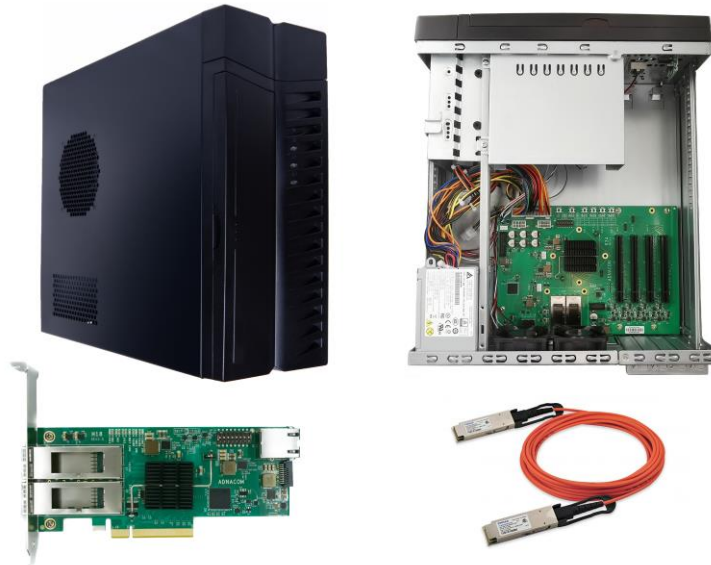


64 Gb/s PCIe Gen 3 Over Fiber Optic Expansion System



The Adnacom AES131 PCIe Gen 3 Expansion System allows system integrators to operate 4 PCIe Gen1/Gen2/Gen3 cards over fiber optic cable at distances up to 1 km from the location of the computer system. No additional host software drivers are required. The system consists of a host adapter, a chassis, and a fiber optic cable.

Product Features:

- PCIe Gen 3 communication over fiber optic
- 32 or 64 Gb/s cable data rate using 4 or 8 PCIe Gen 3 lanes
- Cable length up to 1 km (the maximum data rate depends on the cable length)
- 4 PCIe x16 connectors supporting the following configurations:
 - 4 slots: x8, x8, x4, x4
 - 3 slots: x16, x4, x4
 - 3 slots: x8, x8, x8
 - 2 slots: x16, x8
- PCIe slots support hot-plug and bifurcation
- QSFP optical transceivers, Active Optical Cables (AOC), or Direct Attach Cables (DAC)
- Remote chassis auto power on/off
- PCIe link, voltage, current, temperature, and QSFP transceiver monitor via Ethernet

AES131 System Specification:

System	S31 in microATX case: https://adnacom.com/s31
Cable Data Rate	2 QSFPs: 64 Gb/s data, 8 PCIe Gen 3 lanes 1 QSFP: 32 Gb/s data, 4 PCIe Gen 3 lanes
Host Adapter	H18 host adapter
Chassis	C131
Transceivers and Cables	1 or 2 QSFPs (1 QSFP per 4 PCIe lanes): <ul style="list-style-type: none"> • Multi-mode or single-mode optical transceivers <ul style="list-style-type: none"> ○ LC-LC duplex cable (4 PCIe lanes optically multiplexed) ○ MPO/MPT cable • AOC • DAC

C131 Chassis Specification:

Backplane	R34, PCIe Gen 3 backplane 4 PCIe x16 hot-plug slots 2 QSFP connectors
Slot configuration	<ul style="list-style-type: none"> • 4 slots: x8, x8, x4, x4 • 3 slots: x16, x4, x4 • 3 slots: x8, x8, x8 • 2 slots: x16, x8
Physical Dimensions	136 mm W x 370 mm D x 329 mm H (5.3"W x 14.5"D x 12.9"H)
Material	Steel chassis, flame-retardant plastic parts
System Cooling	Two rear-mount 60 mm fans
Power Supply	SFX, active PFC, universal input, 300/450/600W options
Operating Environment	Temperature: 0° C to +55° C Relative Humidity: 10 to 85%, non-condensing
Storage Environment	Temperature: -40° C to +70° C Relative Humidity: 5 to 85%, non-condensing
Regulatory Compliance	FCC class B, ICES-003 class B, CE
Weight	7.5 kg (16.5 lb)

AES131 Ordering Information:**AES131 without transceivers and cables****Part Number: AES131-PS****Included items:**

- **H18:** host adapter – 1 pcs
- **LP-H18:** low profile bracket – 1 pcs
- **C131-P:** C131 chassis with North American power cord – 1 pcs

P – Power supply options:

- 3: 300 W
- 4: 450 W
- 6: 600 W

AES131 with transceivers and cables**Part Number: AES131-P-N-C-L****Included items:****AES131-P** – 1 pcs**N** – Number of transceivers, AOCs, or DACs: 1 or 2**C** – Transceiver and cable option**L** – Cable length in meters**Transceiver and Cable Options**

Option	Manufacturer	Part Number	Cable
01	Generic	AOC	AOC
02		Single-Mode QSFP with LC connector	LC-LC, Duplex, OM or OS
11	Finisar	FCCN410QD3C	AOC
12	finisar.com	FTL4C1QL2C (LC connector)	LC-LC, Duplex, OM or OS
21	Fiber Store	QSFP-AO	AOC
22	fs.com	QSFP-LX4-40G (LC connector)	LC-LC, Duplex, OM or OS

LC-LC Cable Maximum Length

Cable Type	Typical Maximum Length
Multi-Mode OM1 62.5/125 μm	40 m
Multi-Mode OM2 50/125 μm	100 m
Multi-Mode OM3 50/125 μm	350 m
Multi-Mode OM4 50/125 μm	550 m
Single-Mode OS1 9/125 μm	1 km
Single-Mode OS2 9/125 μm	1 km

Note: The maximum cable data rate depends on the cable length.For further information visit: <https://adnacom.com/aes131/>