DATAPATH
EXCELLENCE BY DESIGN

SLink-OPTICAL, ExCable-OPTICAL and HLink-OPTICAL
High Speed Optical Extension

+ FAST OPTICAL EXPANSION KIT

Modern video wall installations often require equipment to be placed in differing locations within the project space. The Datapath PCI Express Optical Expansion products provide a solution that allows system builders and integrators to combine a PCIe based PC or motherboard to multiple expansion chassis.

Enabling greater flexibility and larger distributed system architecture, the PCI Express Optical Expansion Link can be used to create systems with greater distances between the host PC and expansion chassis.

+ DATAPATH HLink AND SLink OPTICAL

The Optical Expansion solution includes a Host Link Optical and Slave Link Optical PCI Express card connected together using the ExCable-Optical. These combined provide a high bandwidth PCI Express link from an upstream host to a distributed expansion unit. PCI Express Gen.3 technology supports bi-directional data transfer speeds of over 6GB/s ensuring smooth, full frame rate video distribution over great distances. The solution also works with Gen.2 PCI Express backplanes which can provide up to 4GB/s bidirectional bandwidth between chassis.

+ ADDITIONAL BENEFITS

Users can employ the PCI Express Optical Expansion Link with systems based on multiple Datapath backplanes as part of a distributed wall control architecture.

Additionally the Optical Expansion Link automatically adjusts between PCI Express Gen.1, Gen.2 and Gen.3 operation depending on endpoint capabilities

The ExCable-Optical a fully locking optical cable which can support the full PCIe 3.0 signalling speeds. Electrically isolated optical cable with a low EMC signature.

+ SERVICES

Manufactured using industry standard optical cables the SLink/HLink-Optical kit is available with 50m and 100m cables. Please specify optical cable length at time of ordering. Note that two cables between each H/Link & S/Link card are required for full x8 bandwidth.

+ MODELS AVAILABLE

Order Code: SLink-Optical
Optical Gen.3 slave link card

Order Code: HLink-Optical
Optical Gen.3 host link card

Order Code: ExCable-Optical/50
50 metre optical cable

Order Code: ExCable-Optical/ 100
100 metre optical cable

Please specify the required number of HLink-Optical cards and Optical Cables at the time of order.

Note that at least one HLink Optical and one Optical cable will be required.. Please contact sales for availability and pricing.

+ SPECIFICATIONS

BOARD FORMAT

HLink-Optical	PCI Express x8 plug in card
SLink-Optical	PICMG1.3 card

DIMENSIONS

HLink-Optical	150mm x 85mm (half height and full height bracket options)
SLink-Optical	168mm x 85mm (half length)

CONNECTORS

HLink-Optical	2 x Optical Interface connector (up to PCI Express 8 lane, each optical connector provides a x4 link)
SLink-Optical	2 x Optical Interface connector (up to PCI Express 8 lane)
ExCable-Optical	Optical fibre with two integrated Quad (4-channel) Small Form-factor pluggable (QSFP) connected modes

POWER

	HLink-Optical : 10 watts
	SLink-Optical: 5 watts

ENVIRONMENT

Operating Temperature	0 to 35 DegC (32 to 95 DegF)
Storage Temperature	-20 to 70 DegC (-4 to 158 DegF)
Relative Humidity	5% to 90% non-condensing

WARRANTY

	3 years

We are continuously developing the technology used within our product ranges delivering outstanding innovative solutions, therefore the specification may change from time to time.

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