

NV.PCLe.sw

PCIe SWITCH with fiber optic to connect remote device

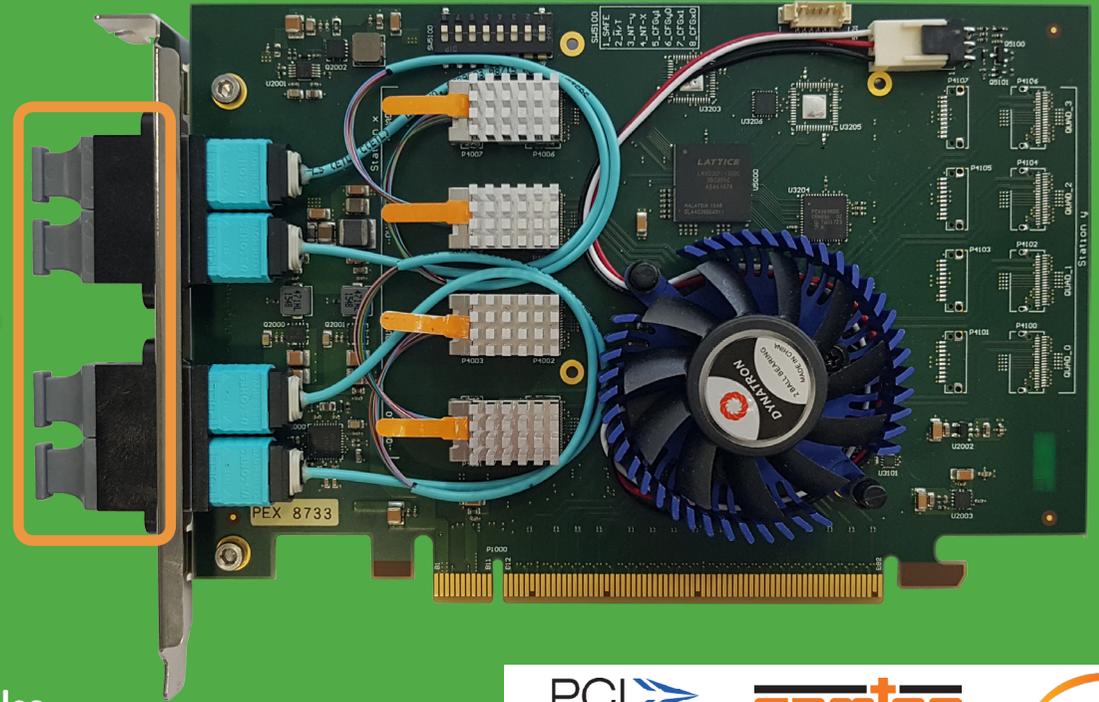
Up to 128Gb/s

16xPCIe 3.0 lane

Available in 2, 4 or 8 PCUO

Fiber Optics allows :

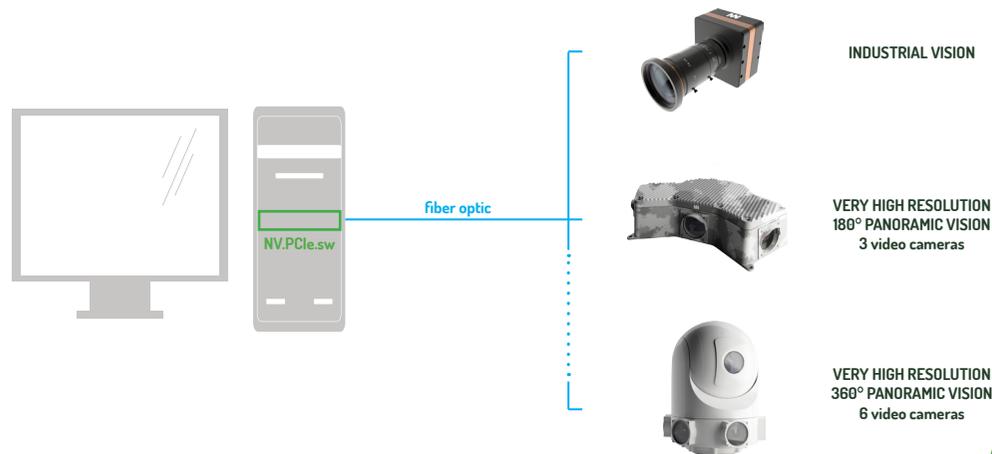
- Long reach (up to 100m)
- High speed (PCIe Gen 3 x16 => 16GB/s)
- Galvanic isolation and EMI immune
- Widely available, low cost, any length MTP OM3 optical cables



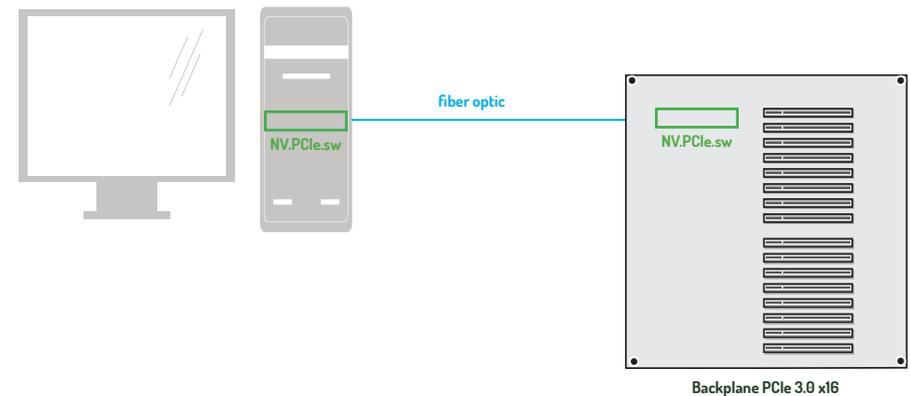
Example setup with 4 PCUO



Ex #1 Connexion with several video camera => stream concentrator



Ex #2 Deep Neural Networks - DNN => remote high power processing





	SMALL	MEDIUM	LARGE
Board version			
Features	PCIe Gen 3.0 / Easy Plug-and-Play installation / Direct Memory Access (DMA) / Self-Powered		
Optical transceiver	Samtec Firefly PCUO		
Optical cable	Up to 100 m / MTP Female 24 pairs Type C (Key up - Key up)		
Mode	<p>DIP Switch Configurable</p> <p>Host Computer-to-Endpoint Connection</p> <p>Target Computer-to-Backplane Connection</p> <p>NT Port (Non Transparent Bridge) Computer to Computer Connection (Cluster)</p>		
Hot-plug support	Yes (only MTP optical links)		
Edge connector	Gen3 x8	Gen3 x16	
PCUO configuration	DIP Switch Configurable		
	One x8 or Dual x4	Mixed x16, x8 and x4	Mixed x16, x8 and x4
Maximum NT port	1	1	2
Backpanel bracket dimensions	Single width (low profile)	Single width	Single width Dual width (for x4 MTP)
Form factor	Low profile, half length 68.90 mm x 167.65 mm	Standard height, half length 111.15 mm x 167.65 mm	
Backplane compatibility for target mode	Active (standard) Nexvision's passive (1PCIe x8 card slot)	Active (standard) Nexvision's passive with 1 to 6 PCIe card slots (various mix of x1 to x16 PCIe)	



OPTION

- Choice of passive target backplanes available with 1 to 6 PCIe card slots (various mix of x1 to x16 PCIe)

INCLUDED

- User Guide

