

# Navis-CL | *PCI-Express Image Acquisition Board*



Low cost, High performance Base Camera Link® acquisition board for area or line-scan camera

## Bus Interface

- PCI-Express 1x interface (ver 1.0a compatible)
- Up to 256MB/s Data transmission speed
- Supported on both 32-bit and 64-bit Platforms
- Bus mastering and Scatter - Gather DMA

## Camera

- Standard MDR-26 pin connector
- One Base configuration
  - 1/ 2/ 3 tap Camera interface
  - RGB Camera interface
- 8-/10-/ 12-/ 14-/ 16-/ 24- bit depth Camera input
- Line scan & Area scan camera
- No Frame rate limit

## Acquisition

- Real-time Image capture
  - The Image output from Camera transferred to System memory of PC within a few hundred microseconds via 2.5MB FIFO Frame buffer
- Up to 80MHz Camera input
- Up to four independently controllable ROIs
- Up to 4K x 4K Resolution for Area scan Camera
- Up to 16K/Line Resolution for Line scan Camera
- Support H/W Horizontal Flip function

## External I/O Control

- D-SUB 3R15P Female connector
- Opto-isolated Frame & Line Trigger port
  - Trigger Signal Polarity & Delay control
- TTL Strobe control output for Illumination control
  - Strobe Signal Polarity & Delay control

## Dimensions and environment

- 114 mm L x 108 mm H [4.49" x 4.25"]
- Operating temperature range : 0 °C to 70 °C
- CE class B pending
- RoHS compliant

## Miscellaneous

- 2.5MB FIFO Frame buffer for faster streaming
- Support Differential serial for Camera Link®
- Optional 12V Camera output
- Easy Implementation with NEXL Library

