

Nexeon CL Duo Specifications



Form Factor

- PCI Express form factor
- PCI Express x1 slot

Camera Input

- Camera Link digital camera input
- RGB or Monochrome support
- Area scan or line scan camera support
- Bayer camera support

Video Acquisition

- Dual independent channels
- Supports two simultaneous BASE cameras or single MEDIUM camera
- 8-, 10-, 12-, 14-, 16-, and 24-bit depth camera support per channel or up to 48 bits in MEDIUM configuration
- Up to 85 MHz acquisition rates
- Programmable digital control of gain and offset
- Non-destructive overlay support
- On-board EEPROM for calibration settings

Camera Control

- Automatic camera synchronization
- On-board DSP for robust capture and control
- RS-232 serial interface per channel
- Camera exposure control
- Switchable PoCL compatible power outputs with SafePower

Video Formatting

- Smooth interpolated scaling to randomly sized windows
- Bus-mastered video transfers to system or display memory
- Up to 64 MB on-board frame buffer
- Area of interest transfers to system memory
- Configurable LUT
- RGB 32/24/16/15/8 and YUV 4:2:2 pixel formats
- Extensive interrupt control for robust capture

I/O Triggers

- 4 LVDS differential pairs
- 8 General Purpose TTL I/O triggers
- Programmable between input and output triggers

Physical and Environmental

- 7.38" (length) x 4.20" (height)
- Two MDR 26-pin Camera Link connector
- Auxillary trigger header connectors

Available SDK

- Compatible with dDeveloper SDK
- Windows 2000, XP, and Vista support
- DirectShow support



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