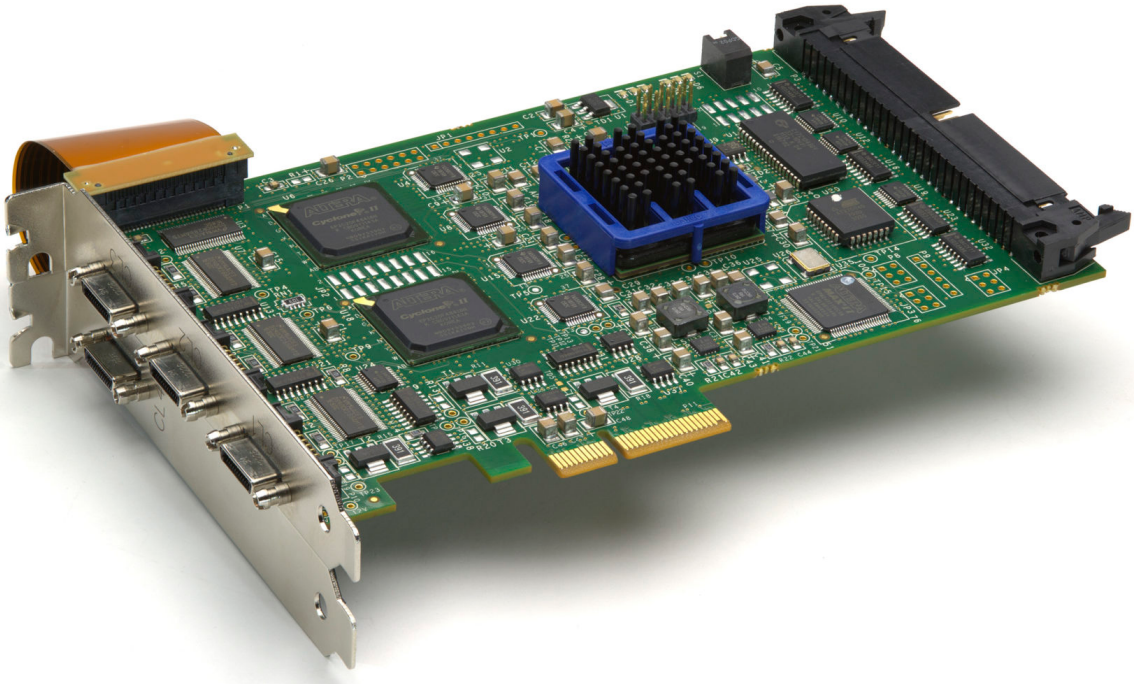
Frame grabbers for machine vision



NEON CLQ

The Neon-CLQ

Please note that this product is EOL and should not be used for new projects. For the replacement frame grabber, please use the Axion 4xB

The Neon-CLQ supports capture from four cameras simultaneously.

All of the cameras can be run completely independent (with different resolutions, frame rates, triggering modes, etc.) or perfectly synchronized. The Neon-CLQ is incredibly flexible and powerful, yet it can substantially lower your system cost. Although the Neon-CLQ only requires a single PCIe slot it provides four camera interfaces plus I/O. This means the Neon-CLQ hits the highest density of cameras per slot of any frame grabber on the market while bringing the cost per camera down to unprecedented lows. At this price per camera, the Neon-CLQ can compete with mainstream network cameras while still providing all the robust industrial features expected when using a frame grabber.

Adding the Neon-CLQ to your application is simple with our SDK, which supports both 32-bit and 64-bit operating systems. Develop your application using our sophisticated buffer management APIs, or download our free drivers, available for most 3rd party machine vision packages. The Neon-CLQ is software compatible with the single camera Neon-CLB, thus making the number of cameras in a system a manufacturing time decision.

If you need the simplest, most reliable, and best performing quad Base Camera Link/PoCL frame grabber, call BitFlow today to get our Neon-CLQ, BitFlow's 4th generation of robust, industrial CL imaging products.

Specifications

- Supports up to four Base CL cameras
- Provides Power over Camera Link (PoCL) for all cameras

- Support both PoCL and non-PoCL cameras
- Provides Safe Power – full protection from all CL power line faults
- All cameras can be independently synchronized
- Separate I/O for each camera
- SDR Camera Link connectors
- Support simultaneous serial communications to all four camera
- The Neon-CLQ appears to Windows as four separate frame grabbers
- Fully backwards compatible with non-PoCL cameras and cables
- Half-Size x4 PCI Express Board
- Acquire up to 24 bits at 85 MHz
- FlowThru technology means that no on-board memory is needed
- Supports images up to 256K x 128K
- No frame rate limit
- Triggers and encoders for external control of acquisition
- Programmable signal generator for camera control (independent for each camera)
- Quadrature encoder support including sophisticated triggering schemes
- Encoder divider/multiplier
- Drivers, utilities, and examples for Windows and Linux
- Supported on both 32-bit and 64-bit platforms
- Drivers for most 3rd party processing environments (e.g. HALCON, LabView, VisionPro, MATLAB, etc.)
- Acquire variable length frames with line scan cameras
- Acquire image sequences well beyond the 4GB barrier
- RoHS compliant