



## GigE Vision Framegrabbers

Building GigE Vision applications for Machine Vision  
with on-the-fly image reconstruction and professional features

GigE Vision is a standard for Machine Vision that specifies a packet-based image data transfer up to 1 GBit/s. The major advantages are the cable lengths up to 100 meters, a very good value for money and the availability of GigabitEthernet interfaces in standard PCs.

Silicon Software offers a variety of image acquisition and image processing products for the GigE Vision standard that differ by many professional technological features from standard NIC cards.

The GigE Vision product line is integrated into the system as a frame grabber. It is based on the powerful SDK of the Camera Link microEnable series. The software layer supports the Gen<i>Cam protocol and is compatible with all GigE Vision cameras. The supplied software can configure vendor-independently all GigE Vision cameras and can ideally be used in mixed systems.



*microEnable IV VQ4-GPoE*



GigE Vision frame grabbers from Silicon

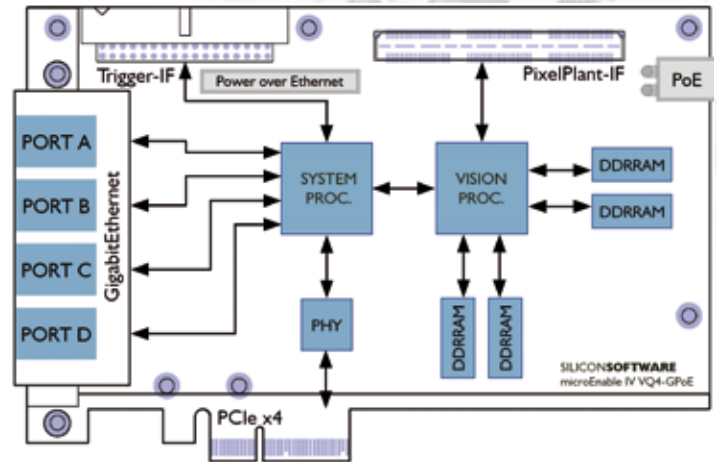
Software acquire image data packets over up to four ports. The FPGA recovers the data packages to complete images and reduces the interrupt rate during the data transfer to the host PC dramatically. Cameras and peripherals can be connected to and controlled by the general purpose interface for external signals. It works with a low latency and is ideally dedicated for line-scan camera applications, which require a precise control.

The support of „power over“ technology allows the connection and power supply of up to four PoE-compatible cameras. An external power supply is not needed and enables one-cable systems, which are often used in robotics with requirements on highly flexible cables.

All professional features are available at the GigE Vision products of the A-series and V-series. V-series models cover the programmability of the FPGA processor, in addition. V-series boards allow the load and run of the image processing libraries series SmartApplets. Individual functions can be programmed by the graphical FPGA development tool VisualApplets or commissioned as development service.


Any information without obligation. Technical specifications and scope of delivery are liability-free and valid until revocation. Mistakes are excepted.





Schematic layout of microEnable IV VQ4-GPoE

Available or planned models:

Standard / Frame Grabber	Description
GigE Vision	
microEnable IV AQ4-GE	4-channels image acquisition card
microEnable IV AQ4-GPoE	4-channels image acquisition card with voltage injector (optional)
microEnable IV VQ4-GE	4-channels image processing board
microEnable IV VQ4-GPoE	4-channels image processing board with voltage injector (optional)

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