



SILICON SOFTWARE

Press release

Silicon Software releases SmartApplets for microEnable IV framegrabber series

SILICON SOFTWARE delivers SmartApplets as partial solution for Machine Vision applications and run on programmable microEnable IV V-series framegrabbers.

SmartApplets exceeds classical image pre-processing. It calculates complex image processing with a high algorithmic quality in real-time on the on-board FPGA.

Both available SmartApplets families "binarization" and "blob/segmentation" support the image acquisition from area scan and line scan cameras. Besides image enhancements and corrections, images are de-noised and binarised by an adaptive threshold on base of big kernels. Moreover the segmentation covers morphologic image processing to reduce small objects, before the object detection by a blob analysis is performed. The configuration of feature extractions enables an additional object classification. It is possible to transfer the original image as well as the feature list over separate DMA channels.

SmartApplets enables the acceleration of applications tremendously and reduces the load of the host CPU significantly.

New SmartApplets families are under development. The range of products will constantly be extended and improved.

SmartApplets are supported by PCI Express based microEnable IV V-series framegrabber boards for Camera Link and GigE Vision. SmartApplets are ready-to-run and can easily and quickly be adapted to applications by an intuitive configuration.

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About Silicon Software

Silicon Software GmbH, located in Mannheim/Germany, is a manufacturer of intelligent pre-processing solutions based on reprogrammable FPGA technology for machine vision applications. The hard- and software products are designed for flexibility, easy handling and performance featuring user programmable FPGA technology.

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