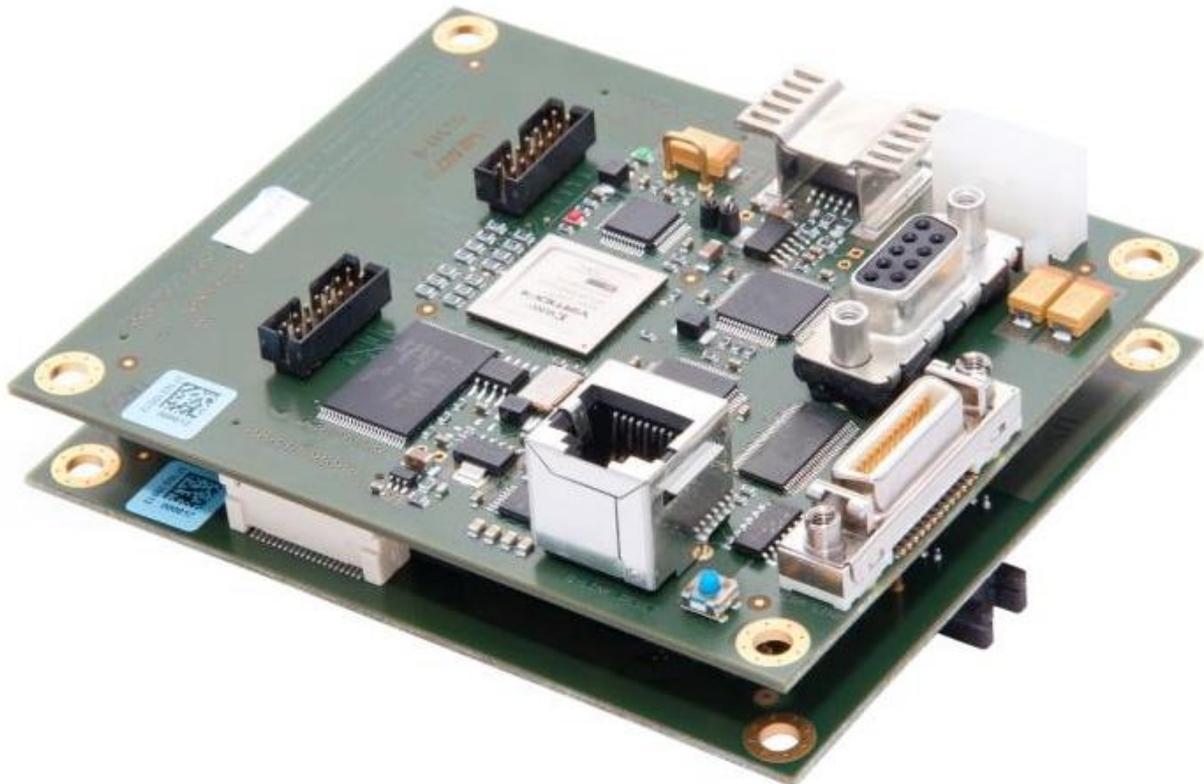# Digital Grayscale Line Camera Electronic 100MHz – Cam100G_SET

Technical description:

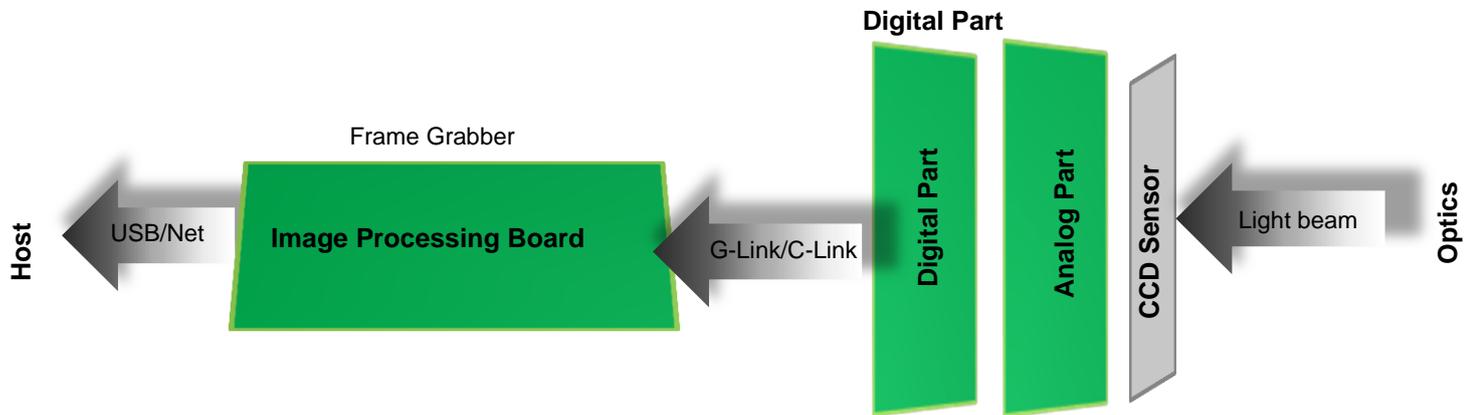- Resolution: up to 600 dpi DIN A3
- 7000 px per line, 12 bit per px
- Bit depth: 12-bit grayscale
- Pixel size: 7x7 µm square
- Sensor type: CCD
- Performance: up to 100 megapixels per second
- Speed: depending upon size and resolution (up To 1000 ppm DIN A4 200 dpi)
- Interfaces: RS-232 for camera setup, RS-644 or Camera Link for image data
- Cable: CAT7 or Camera Link for image transfer and camera setup
- Power supply: 5V + 12V

Advantages:

- Extreme image quality due to true 12-bit processing and image output
- Adjustable line length
- Selectable working frequency
- Horizontal and vertical image re-scaling (anti-aliased)
- Non-volatile camera calibration (flat field + shading compensation)
- Pre-processing of the image content
- Precise, curve-based contrast and brightness enhancement through LUT
- RS-232 interface for setup and software updates
- Built-in test patterns for debugging and verification
- Other functions included

Digital Grayscale Line Camera Electronic 100MHz – Cam100G_SET

Digital Part

Frame Grabber

Image Processing Board

Host

USB/Net

G-Link/C-Link

Digital Part

Analog Part

CCD Sensor

Light beam

Optics

The electronics of the Cam100G_SET is capable of capturing gray images with resolution up to 600 dpi, DIN A3. The resolution depends upon the optical part of the camera, the light system, and the setup parameters of the camera. The electronic camera has to be included in the customer's optic system.

The camera is able to scan images with defined resolution depending upon the active number of pixels. The quality of the image depends upon the light, optics, and paper transport system.

The Cam 100G_SET works with BAP Image Engines (IE64_57 and IE64_HS). Both IE64 Image Processing Boards supports two camera inputs serviced in parallel, simultaneously. All necessary image processing functions can be customized using the open interface. Both image processing units have standard USB 2.0 interfaces to the Host_PC. The hardware version of IE64_57 can be equipped with other interfaces (USB 3.0, Ethernet).

BAP Image Systems (BAPis) is a dependable and reliable imaging products and solution provider with highly proven industry experience. BAPis develops and manufactures cameras based not only on high speed CCD and CMOS line sensors, but also on area CMOS/CCD sensors. BAPis cameras are used in the machine vision industry as well as in the film industry. Additionally, BAPis develops and produces image grabbers and processing boards based on DSP and FPGA technologies using its own algorithms. Image processing boards are matched with camera performance and, when combined, are able to reach the highest possible throughput.