



Sunrise Electronic DESign

NEW GENERATION EMBEDDED AND ALL INTEGRATED VISION SYSTEM

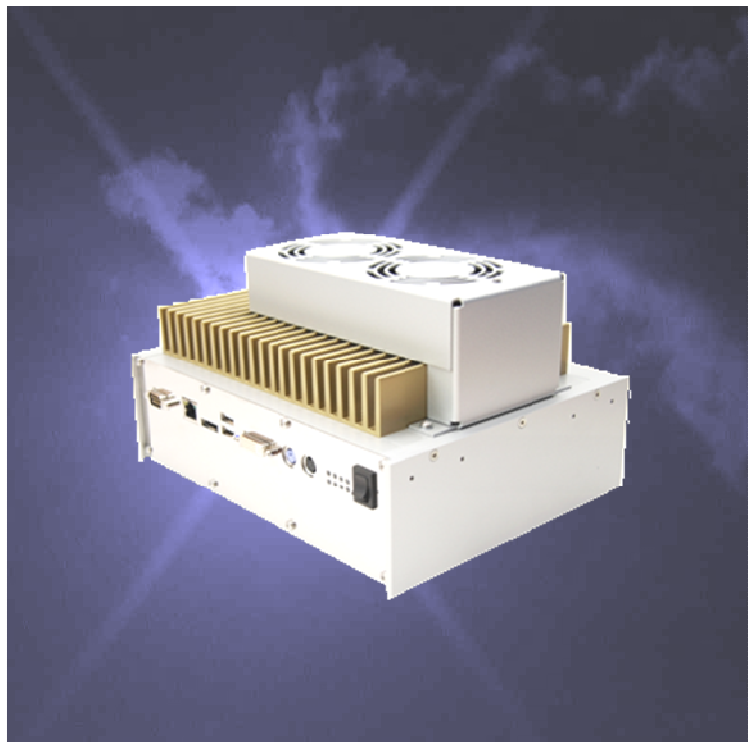
After the chameleon frame grabbers family, SELDES S.A. introduces Cougar stand alone vision systems family for acquisition and real time image processing . Plug your cameras on one side and the Ethernet on another side... and just start!

Cougar systems, One carrier board in a "Plug & Play Black Box"

Discover benefits next pages ...

Thanks to expertise in 4 technologies Cougar offers Low Cost and High End, Easy and Reliable vision solutions for

- Acquisition from cameras for Camera-Link/Gig-E/3G-SDI/Custom interfaces
- Processing/CODEC/recording
- Embedded
- Supervision via WEB FTP sites
- Industrial, Medical, Event detection & Analysis , Broadcast applications



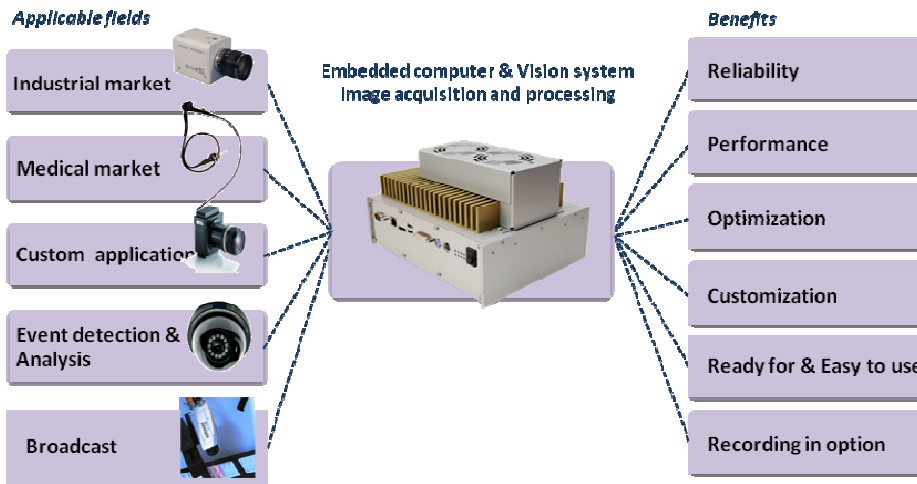
COUGAR: image processing

SELDES S.A. FOR MORE INFORMATION

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The incomparable use of complementary technologies for high performance with no reliability compromise



RELIABILITY

- **Embedded system** resulting from long experience in vision systems
- **Compact** "IPC Special Housing"
- **Innovative**
- **Robust** housing – meets rugged environments – equipment running 24H/24 – 365 days/year
- **Stable** system
- **Stand alone**
- **High quality standards**
- **Long life expectancy** to secure your investment product life cycles,...
- Product designed by **highly qualified team**

Engineering based company,
Designer and manufacturer,
Deep knowledge of machine vision industry, strong partnership,
Deep expertise in real-time technologies, hardware/software integration.

PERFORMANCE

- **Accelerated** system - **High speed** requirements – **High End Cougar** (6 Gigabits/sec acquisition & processing capacity)
- **Real-time technologies**
- Benefits from powerful and dynamic **reconfigurable** system, able to process images from faster and higher resolution cameras
- **We provide 3 types of accelerator :**
- **FPGA** suits well for highly parallel processing and simple /medium /complex operation
- **RISP processor** suits well for more complex operation and less parallelization
- **GPU processor** in option
- **Your benefits : flexibility, stability, high quality and performance.**

OPTIMIZATION

- **"Who may offer more, may offer less"**
- Flow rate and complexity of algorithm are the key parameters to decide if real-time may be achieved with Core2 Duo or/and accelerator.
- **Optimization of hardware/software programming** is necessary for High Performance application
- **Optimize the development costs** by using the **exact technology suitable** for your application
- **Optimize your investment** and the best production costs in function of volume, performance and time to market.

CUSTOMIZATION

- With **Low Cost Cougar**, you match standard and low requirements regarding performance (**max 2 Gigabits/sec**) .
- With **High End Cougar** you have the most powerful solution (**max 6 Gigabits/sec**) .
- In between we offer a **customized version** of Cougar which feed **your needs**
- Prototyping with standard version before the high-volume production. You reduce time to market and limit your investment risk for full customized version
- Possible customization including **camera design** using CCD or CMOS sensors.

READY FOR AND EASY TO USE

- **2 user interfaces : local & remote**
- **Web tools :**
 - **Easy to use, to parameter application, to integrate, to debug**
 - **Direct supervision, monitoring, control**
 - **Maintenance and updating via the network**
- **To connect different camera types**
- **3rd party real-time development integration via**
 - Mathworks tools
 - RISP & GPU processor development kit
 - Open to interface other companies software packages and tools
- **Application development integration via Microsoft tools .NET**
 - Compatibility WINDOWS XPe ! Secure and stable !
 - Deliver API compatible with C++/ C# for image and processing results acquisition.

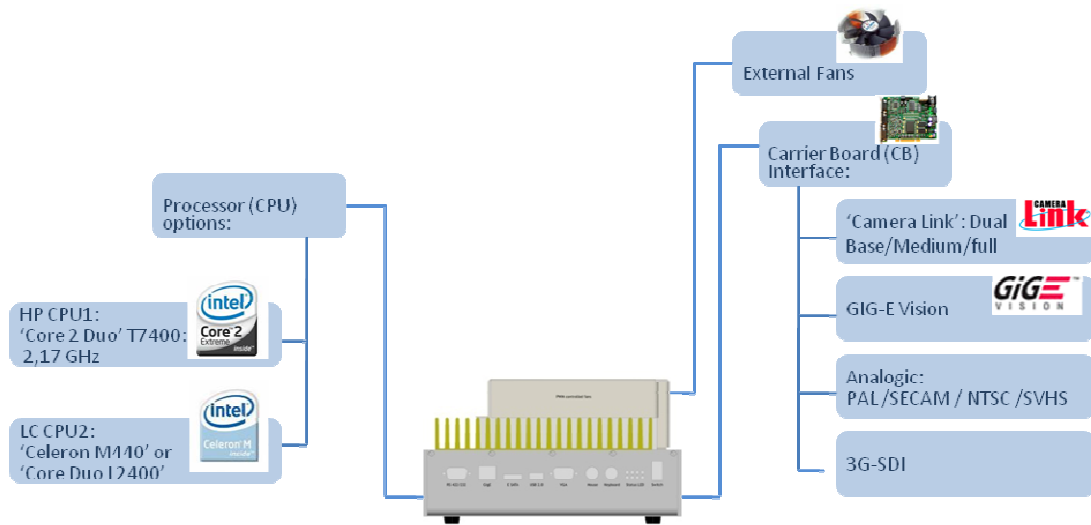
RECORDING IN OPTION

- **Cougar may** include a **database** and is able to **record permanently** several terabytes without saturation ! You 'll be able
 - To **record images** from additional cameras to the one already used
 - To **record metadata** with acquisition of images
 - ...



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CHOOSE YOUR 'COUGAR' with Seldes



3 QUESTIONS — 3 SOLUTIONS

1 .Do you need image acquisition and/or processing in real time?

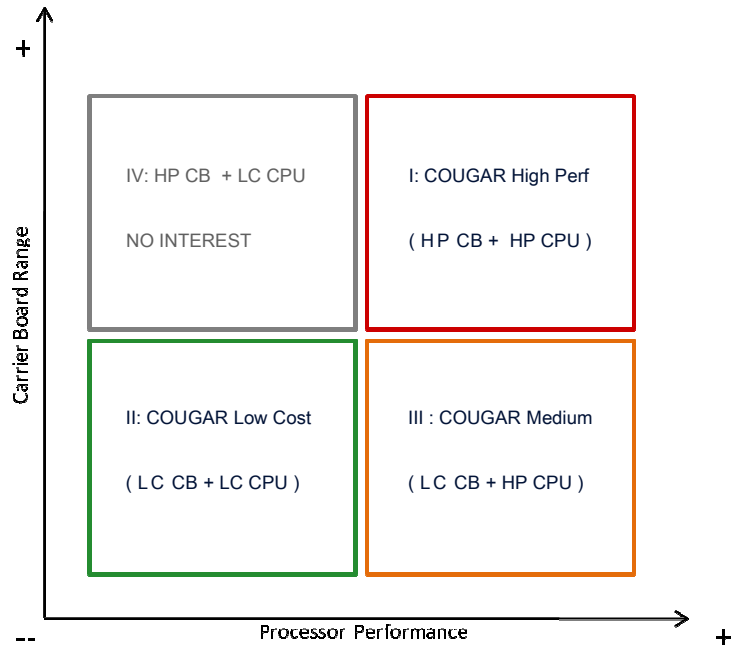
- YES => HP product range: best solution for the Real Time Processing
- NO => LC, basic Vision Embedded Acquisition and Processing system.

2 .Your camera(s) needs more than 2Gb/sec to be transferred?

- YES => HP
- NO => LC, Max transfer for 2 cameras = 2 Gb/sec

3 . Do you need software performance?

- YES => HP CPU
- NO => LC CPU



(HP) HIGH PERFORMANCE

Complex solutions requiring Real-time, high resolutions, powerful CPU , high frame rate.

Suitable applications:

- 3D Real-time **analysis**
- Very high resolution acquisition
- **Colorimetric** analysis
- ...

(LC) LOW COST

Simple processing and application suitable to all sectors.

Limited in resolution and frame rate, in number of connected camera , in complexity of the application and in frequency of results.

Suitable applications:

- OCR
- **Laboratory application** that do not require intensive processing
- Solutions requiring **standard resolution**
- **Classic frame rate**

MEDIUM SOLUTION

Intermediate solution between HP and LC.

Maxi performance without FPGA, only software , limited number of connected camera .

PLEASE CONTACT SELDES, IF YOU DESIRE : info@seldes.com — +32.....

- Price
- Cougar Datasheet
- Technologies comparison
- ...

