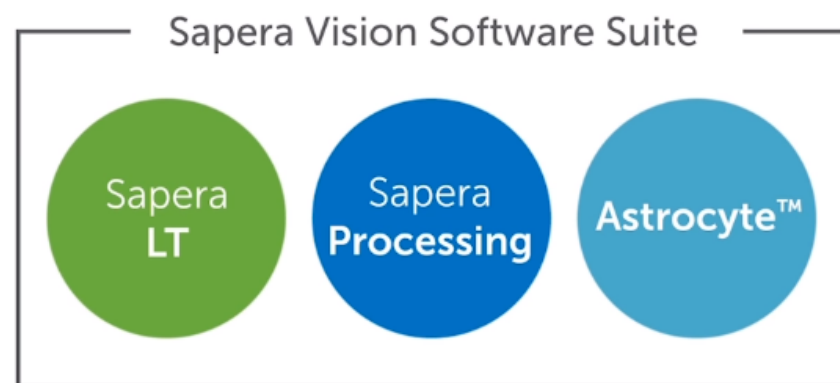


## Fully supported by Sapera™ Vision SDK

When combined with a compatible Teledyne DALSA frame grabber, standard Sapera Processing run-time licenses are offered at no additional charge. Sapera Processing is at the heart of Sapera Vision Software, delivering a suite of image processing and analysis functions. These functions include over 400 image processing primitives, barcode tools, pattern matching tools (both area-based and edge-based), OCR, color and blob analysis, measurement, and calibration tools for perspective and lens correction. The standard tools run-time license includes access to image processing functions, area based (normalized correlation based) template matching tools, blob analysis, and lens correction tools.



## Specifications

<b>Part Number</b>	OR-A8S0-HX870
<b>Bandwidth</b>	Input CHLS camera: up to 7.6 GB/s in frame grabber memory PCIe bus output: up to 7.0 GB/sec sustained (PCIe payload @ 512 bytes) PCIe bus output: up to 6.8 GB/sec sustained (PCIe payload* @ 256 bytes)
<b>Board Type</b>	PCIe
<b>Host Bus</b>	PCI Express Gen3 x8
<b>Board Interface</b>	Camera Link HS
<b>Connectors</b>	Data input: 1 x CX4 thumbscrew, AOC ready Data forward: 1 x CX4 thumbscrew, AOC ready Camera control I/O: 1 x DH60-27P (main bracket), 1 x 26-pin shrouded header Multi-board sync: 1 x 16-pin shrouded connector
<b>Camera Format</b>	CLHS X-protocol (64 b/66 b encoding): up to 7-lanes @ 10.3125 Gb/s
<b>Transmission Rate</b>	7-lanes x 10.3125 Gbps (72.187 Gbps total)
<b>Bits Per Pixel</b>	Mono: 8, 10, 12-bit/pixel RGB: 8 or 12-bit/pixel/color (aligned)
<b>Camera Control</b>	External trigger input, strobe out, quadrature encoder, multi-board sync, camera control through Genicam, bit-error detection and correction
<b>GPIO</b>	4x opto-couple (2 shared with external trigger) 8 LVTTTL outputs (1 shared with strobe)
<b>Frame Buffer</b>	512 MB on-board memory (shared with processing function)
<b>Features</b>	Data-forwarding for distributed image processing, multi-board synchronization: grab images from multiple independent cameras in one

image buffer, long cable lengths (AOC), real-time, user selectable image processing, supports T2IR (Trigger2Image Reliability) framework

**Software**

Sapera LT SDK

**OS Support**

Windows 11 (64-bit), Windows 10 (64-bit), Windows 10 (32-bit) through WOW64, Linux (64-bit)

**Input Camera Port**

1 camera