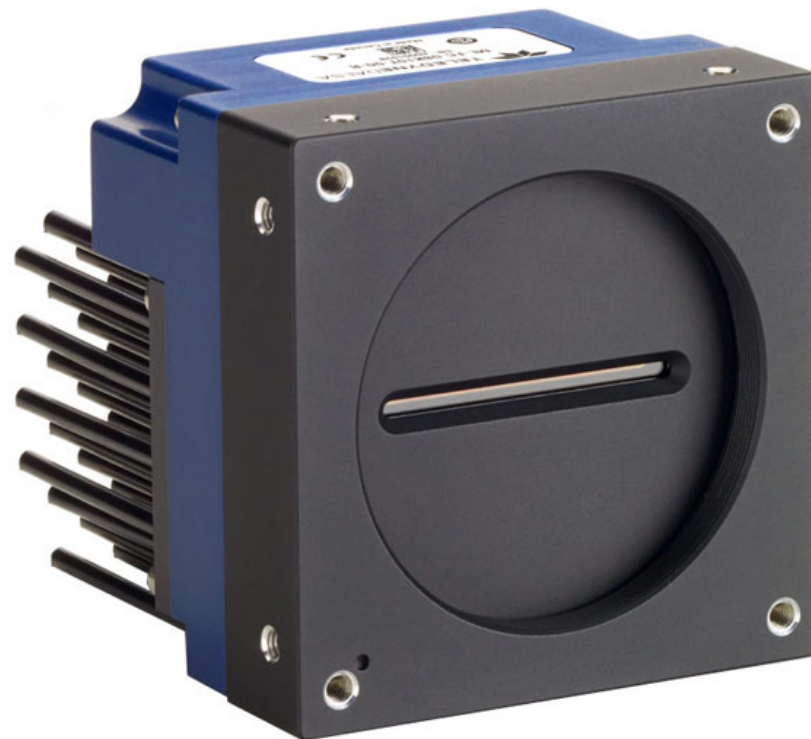


## Built to Support the Next Generation of Machine Vision Cameras

The Linea ML brings leading edge CMOS technology that is faster than ever, with affordable multiline architecture that enables the newest, most powerful inspection techniques including HDR, color and multispectral analysis, and multi-field imaging (single-pass bright/darkfield). With a native fiber optic interface for easy, low-cost long distance cabling, Linea ML opens new horizons in inspection.

Together, Xtium2 and Linea ML enable the newest and most demanding vision applications.

**[Linea ML Product Page](#)**

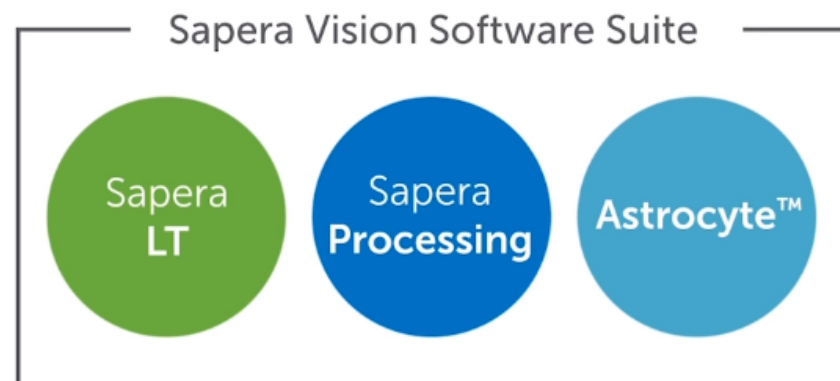


## Free Acquisition and Control



The Xtium and Xtium2 series of frame grabbers are fully supported by Sapera LT SDK. Sapera LT SDK is an image acquisition and control software development toolkit (SDK) for Teledyne DALSA's cameras and frame grabbers. Hardware independent by nature, Sapera LT offers a rich development ecosystem for machine vision OEMs and system integrators. Sapera LT SDK supports image acquisition from cameras and frame grabbers based on standards including GigE Vision™, Camera Link®, CoaXPress®, and Camera Link HS™.

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-A8X6-XPX40
<b>Bandwidth</b>	Input CXP camera: up to 5.0 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>	CoaXPress
<b>Connectors</b>	Data input: 4 x 1.0/2.3 connector Data forward: N/A 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>	CXP 1.0/1.1/2.0 (CXP6: 6.25Gbs 8 b/10 b encoding)
<b>Transmission Rate</b>	1 to 6.25 Gbps (25 Gbps total)
<b>Bits Per Pixel</b>	Mono: 8, 10, 12, 14 and 16-bit RGB: 8, 10 or 12-bit/pixel/color Bayer: 8, 10 and 12-bit/pixel

**Camera Control**

External trigger input, strobe out, quadrature encoder, multi-board sync, camera control through GenCP/SFNC, bit-error detection and correction

**GPIO**

4x opto-couple (2 shared with external trigger)  
8 LVTTL outputs (1 shared with strobe)

**Frame Buffer**

2048 MB on-board memory (shared with processing function)

**Features**

Multi-board synchronization: grab images from multiple independent cameras in one image buffer, 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**

up to 4 cameras

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