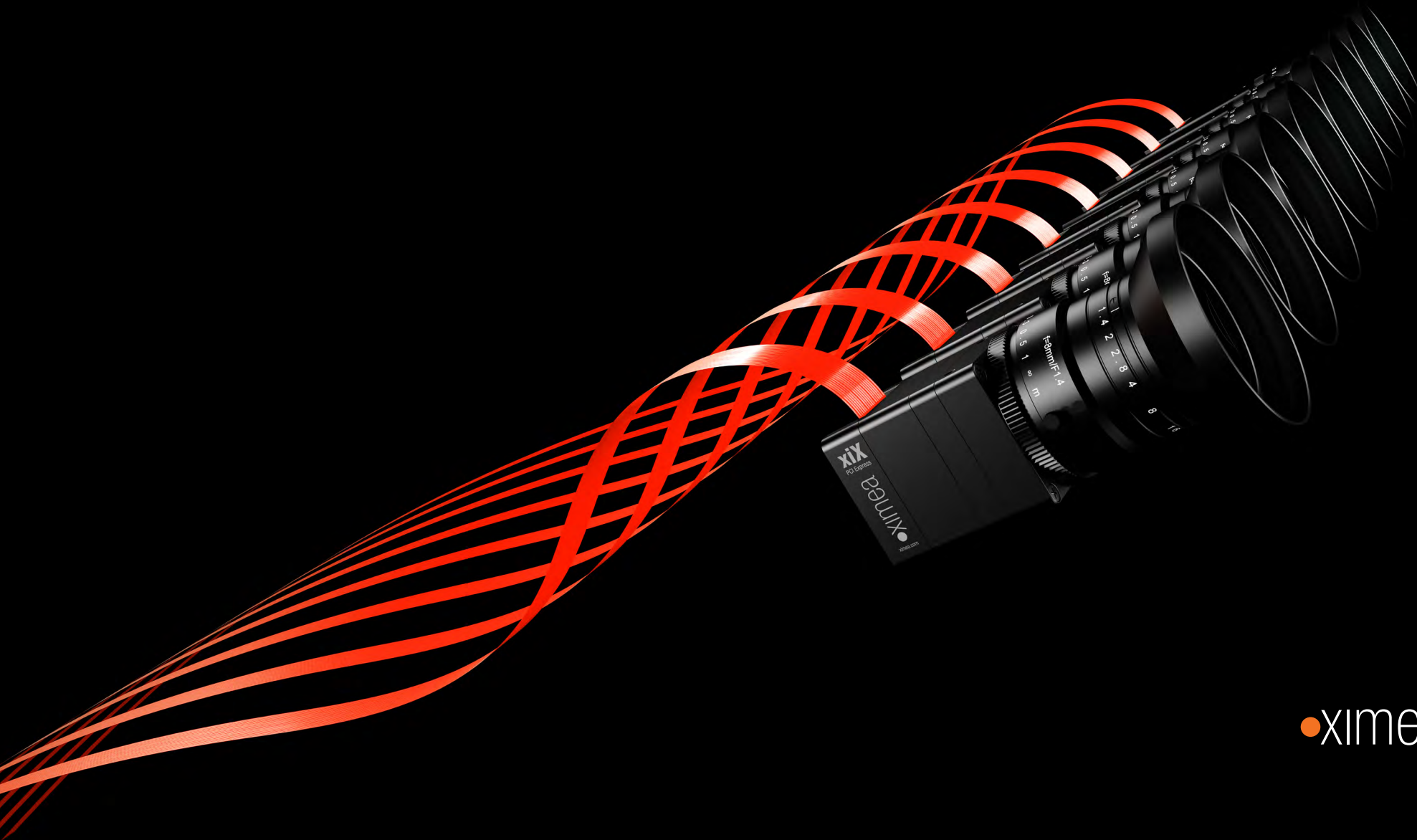


xiFLY

High-performance platform for
multi-camera and embedded vision systems



• ximea

xiFLY: high-performance multi-camera platform

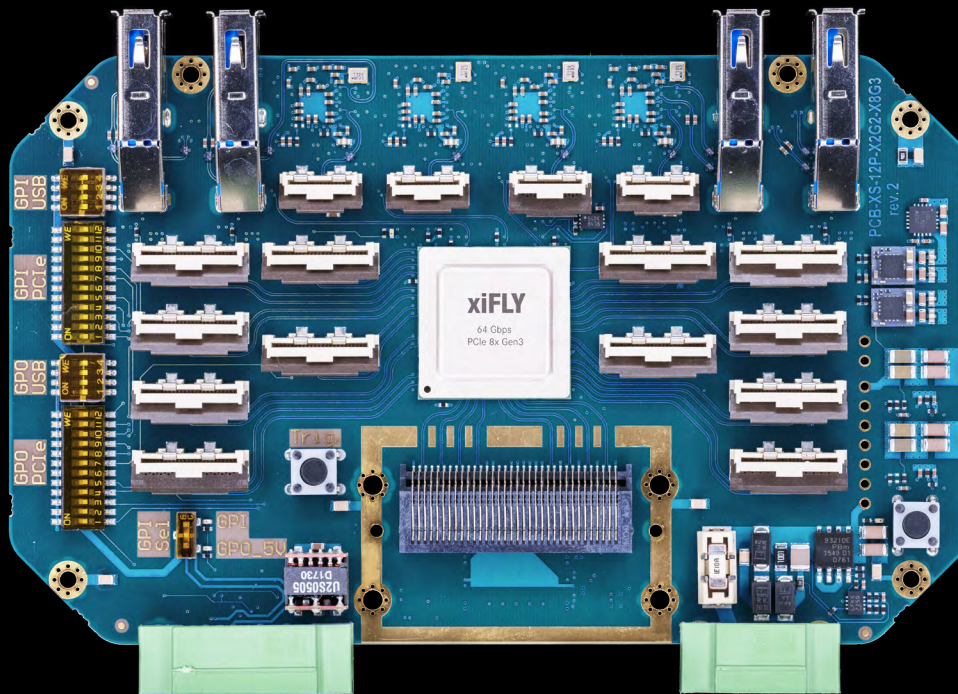
The highest performance in the smallest space.

Facts

- PCIe based platform for multi-camera applications.
- Accepts PCIe and USB cameras.
- High-speed 64 Gbps host interface.
- Precision synchronization between multiple cameras.
- Standard components for rapid system prototyping.
- Customizable reference design.

Features

- Simple, easy, configuration of multi-camera and embedded applications.
- Space saving and lightweight.
- Multiple cameras are connected via single high speed 64 Gbps interface to the host.
- Compatible with all XIMEA USB3 and PCIe cameras.



An example of a standard xiFLY component, xiSwitch module with 8x USB3 and 12x PCIe X2G2 camera ports and single PCIe X8G3 host iPass port for total image data throughput of 64 Gbps.

Shown in actual size.

FLY through your development.

Extreme speed made lightweight and compact.

xiFLY uses xiSwitch technology to switch multiple USB and PCIe camera data streams into single, lightweight, high-speed PCIe physical optical or copper media. For even greater versatility, other PCIe and USB devices can be included as well to the same physical media.

In sync.

xiFLY hosts the data from each camera, as well the available switches can transfer GPIO signals to or from the subject cameras, allowing full synchronization of many cameras from external sources

Remote control.

Available iPass fiber optic PCIe cables allow the system to be far removed from the host computer. High speed 64 Gbps interface can carry data over 100m with a single, thin & flexible cable.

Versatility.

Lightweight and space saving ribbon cables from the xiX and xiC cameras can be routed to a xiSwitch unit in a variety of configurations. The camera cables can run straight to a switch for maximum space savings or can be adapted to standard iPass or USB for long cable runs to the switch.

Software, OS platforms, vision libraries, API and tools

Supported operating systems

Microsoft Windows, Apple OS X, Linux, Android

Supported Vision interface standards

USB3 Vision®

GeniCam

Supported Vision Libraries

Halcon, Labview, Matlab, OpenCV and more than 50 other vision libraries.

API and code examples

Low level XIMEA camera API for deep access to the camera hardware.

Test, evaluation and diagnostics tools

xiCOP and xiCamTool

More information

For complete specification, models and accessories, see the technical data-sheet or visit www.ximea.com

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