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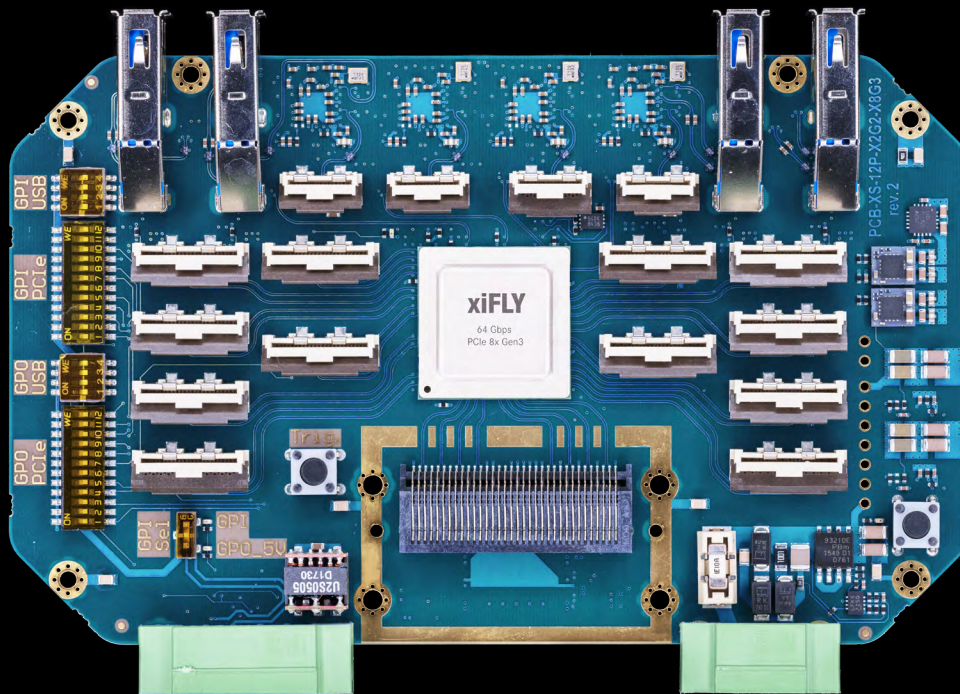
An example of a standard xiFLY component, xiSwitch module with 8x USB3 and 12x PCIe X2G2 camera ports and single PCIe X8G3 host iPass port for total image data throughput of 64 Gbps.

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**

Sales offices

Worldwide
XIMEA GmbH
Am Mittelhafen 16
48155 Münster
Germany
info@ximea.com
Tel: +49 251 202 408-0
Fax: +49 251 202 408-99

Slovakia and Czech Republic
XIMEA s.r.o.
Lesna 52
900 33 Marianka
Slovakia
info@ximea.com
Tel: +421 (2) 205 104 26
Fax: +421 (2) 205 104 27

Americas
XIMEA Corp.
8725 W 14th Ave
80215 Lakewood, CO
USA
info@ximea.com
Tel: +1 (303) 389 9838
Fax: +1 (303) 202 6350