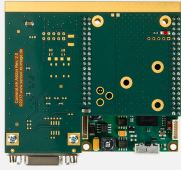


# Camport CL2USB3

Camera Link to USB3 Vision converter



## At a Glance

- Connect one base-configuration Camera Link camera to a standard USB3 port
- Ultra-low latency and jitter
- Sphinx USB3 Vision SDK included
- Compliant with USB3 Vision and GenICam standards
- Standard version (with housing) and OEM version (without housing) available

## Benefits

### Real-time video streaming

Stream video and imaging data in real time over standard USB3 connections using the industry-standard USB3 Vision protocol.

### Use proven Camera Link cameras with USB ports

### Ultra-low latency

The video from the camera is packetized and transmitted with minimum delay, ensuring the lowest transmission latency.

### Sphinx U3V SDK included

A feature-rich software toolkit that provides the building blocks needed to quickly and easily design high-performance video applications that use minimal CPU resources.

- Driver and acquisition library for Windows
- Sample applications, including USB3 Vision/Genicam compliant viewer

### Standard (with housing) and OEM (without housing) versions available

### Compatible with 3rd party software

Compatible with 3rd party GigE Vision/Genicam compliant vision software libraries (including MIL, LabView, Halcon, CVB...)

## Applications

### Microscopy

- High-definition image acquisition for offline inspection stations
- High-definition image acquisition for laboratory and measuring microscopes

## Specifications

### Mechanical

Form Factor	Standard version: <ul style="list-style-type: none"><li>• Stand-alone device with enclosure</li></ul> OEM version: <ul style="list-style-type: none"><li>• Baseboard and camera module assembly</li></ul>
Housing	Standard version only: <ul style="list-style-type: none"><li>• Fanless aluminum housing</li></ul>
Mounting	Standard version only: <ul style="list-style-type: none"><li>• Desktop or wall-mount</li></ul>
Connectors	All versions: <ul style="list-style-type: none"><li>• 'CAMERA LINK' on camera module:<ul style="list-style-type: none"><li>– 26-pin Mini Delta Ribbon (MDR) socket</li><li>– Camera Link BASE connector</li></ul></li><li>• 'USB3' on baseboard module:<ul style="list-style-type: none"><li>– USB3 Micro B socket</li><li>– USB3 Vision device interface</li></ul></li></ul> Standard and EXT versions only: <ul style="list-style-type: none"><li>• 'POWER/IO/RS232':<ul style="list-style-type: none"><li>– 15-pin 2-row high-density female sub-D connector</li><li>– Power input, RS-232, CMOS IO</li></ul></li></ul> OEM and OEM EXT versions only: <ul style="list-style-type: none"><li>• 'POWER/IO/RS232' on baseboard module:<ul style="list-style-type: none"><li>– Molex 53047-1010</li><li>– Power input, CMOS IO</li></ul></li></ul>
Dimensions	Standard version: <ul style="list-style-type: none"><li>• 110 mm x 68 mm x 112 mm</li></ul> OEM version: <ul style="list-style-type: none"><li>• 91.5 mm x 20 mm x 86 mm</li></ul>
Weight	• Standard versions: 470 g, 16.6 oz • OEM versions: 80 g, 2.8 oz

### Camera / video inputs

Interface standard(s)	Camera Link
Number of cameras	One Base camera
Maximum aggregated camera data transfer rate	255 MB/s
Camera Link configuration	Base <ul style="list-style-type: none"><li>• BASE_1T8, BASE_2T8, BASE_3T8</li><li>• BASE_1T10, BASE_2T10</li><li>• BASE_1T16</li><li>• BASE_1T24</li></ul>
Camera Link clock frequency	From 20 MHz up to 85 MHz
PoCL (Power over Camera Link)	No

Camera pixel formats supported	Monochrome, Bayer and RGB (PFNC names): <ul style="list-style-type: none"> <li>• Mono8, Mono10, Mono16</li> <li>• Bayer&lt;XX&gt;8, Bayer&lt;XX&gt;10, Bayer&lt;XX&gt;16 where &lt;XX&gt; = GR, RG, GB, or BG</li> <li>• BGR8</li> </ul>
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## Area-scan camera control

Trigger	Yes
Strobe	No

## On-board processing

On-board memory	<ul style="list-style-type: none"> <li>• CPU: 32 MB</li> <li>• Frame buffer: 32 MB</li> <li>• Flash: 8 MB</li> <li>• EEPROM: 8 kB</li> </ul>
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Bayer CFA to RGB decoder	Yes
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## General Purpose Inputs and Outputs

Number of lines	Four I/O lines: <ul style="list-style-type: none"> <li>• Two inputs</li> <li>• Two outputs</li> </ul>
Electrical specifications	<ul style="list-style-type: none"> <li>• 3.3 V CMOS inputs</li> <li>• 3.3 V 20 mA CMOS outputs</li> </ul>

## System integration

COM	One Full-duplex RS-232 COM port, CameraLink serial pass through
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## Electrical

Supply voltage	8 to 15 V DC, power supply via external unit
Power consumption	Standard version: <ul style="list-style-type: none"> <li>• 3 W typical</li> </ul> OEM version: <ul style="list-style-type: none"> <li>• 2.5 W typical</li> </ul>

## Software

APIs	Sphinx SDK: <ul style="list-style-type: none"> <li>• Filter driver and acquisition library for Windows</li> <li>• Sample applications, including USB3 Vision/GenICam compliant viewer</li> <li>• Driver installation tool</li> <li>• Documentation</li> </ul>
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## Environmental conditions

Operating ambient air temperature	0 to +70 °C / +32 to +158 °F
Operating ambient air humidity	TBD
Storage ambient air temperature	TBD
Storage ambient air humidity	TBD

## Certifications

Electromagnetic - EMC standards	To be confirmed: <ul style="list-style-type: none"> <li>• European Council EMC Directive 2004/108/EC</li> <li>• United States FCC rule 47 CFR 15</li> </ul>
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EMC - Emission	To be confirmed: <ul style="list-style-type: none"> <li>• EN 55022:2010 Class B</li> <li>• FCC 47 Part 15 Class B</li> </ul>
EMC - Immunity	TBD
Flammability	PCB compliant with UL 94 V-0
RoHS	European Union Directive 2011/65/EU (ROHS2)
REACH	European Union Regulation 1907/2006
WEEE	Must be disposed of separately from normal household waste and must be recycled according to local regulations

### Ordering Information

Product code - Description	<ul style="list-style-type: none"> <li>• 8114 - Campport CL2USB3</li> <li>• 8114-O - Campport CL2USB3 (OEM)</li> </ul>
Optional accessories	1675 - 12V 40W Power Supply Block



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