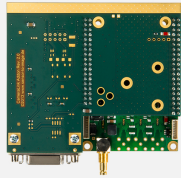


Camport CL2CXP3

Camera Link to CoaXPress converter



At a Glance

- Connect one base-configuration Camera Link camera to a standard CoaXPress frame grabber
- Ultra-low latency and jitter
- Compliant with CoaXPress and GenICam standards
- Standard version (with housing) and OEM version (without housing) available

Benefits

Use proven Camera Link cameras with CoaXPress

Long cable support: 100+ meters

Use standard coaxial cables

- A single inexpensive cable for data transfer, camera control, trigger and power supply
- Top reliability and flexibility, performs in the harshest environments

Ultra-low latency

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

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

Applications

Life Sciences & Medical

- High-definition image acquisition and streaming from Flat Panel Detectors (FPD)
- Standard and high-definition image acquisition for endoscopy applications
- Standard and high-definition image acquisition for dental applications
- Standard and high-definition image acquisition for video-guided surgery applications

Microscopy

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

Video Monitoring, Surveillance & Security

- High-definition low latency video streaming over IP for remote control
- High-definition low latency video streaming over IP for critical infrastructure
- High-definition low latency video streaming over IP in mines

Specifications

Mechanical

Form Factor	Standard version: <ul style="list-style-type: none">• Stand-alone device with enclosure OEM version: <ul style="list-style-type: none">• Baseboard and camera module assembly
Housing	Standard version only: <ul style="list-style-type: none">• Fanless aluminum housing
Mounting	Standard version only: <ul style="list-style-type: none">• Desktop or wall-mount
Connectors	All versions: <ul style="list-style-type: none">• 'CAMERA LINK' on camera module:<ul style="list-style-type: none">– 26-position Mini Delta Ribbon (MDR) socket– Camera Link BASE connector• 'COAXPRESS' on baseboard module:<ul style="list-style-type: none">– DIN 1.0/2.3 female connector– CXP-3 device interface Standard version only: <ul style="list-style-type: none">• 'POWER/IO/RS232':<ul style="list-style-type: none">– 15-pin 2-row high-density female sub-D connector– Power input, RS-232, CMOS IO OEM version only: <ul style="list-style-type: none">• 'POWER/IO/RS232' on baseboard module:<ul style="list-style-type: none">– Molex 53047-1010– Power input, CMOS IO
Dimensions	Standard version: <ul style="list-style-type: none">• 110 mm x 68 mm x 112 mm OEM version: <ul style="list-style-type: none">• 91.5 mm x 20 mm x 86 mm
Weight	<ul style="list-style-type: none">• 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">• BASE_1T8, BASE_2T8, BASE_3T8• BASE_1T16• BASE_1T24
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"> • Mono8, Mono16 • Bayer<XX>8, Bayer<XX>16 where <XX> = GR, RG, GB, or BG • RGB8
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Area-scan camera control

Trigger	Yes
Strobe	No

On-board processing

On-board memory	<ul style="list-style-type: none"> • CPU: 32 MB • Frame buffer: 32 MB • Flash: 8 MB • EEPROM: 8 kB
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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"> • Two inputs • Two outputs
Electrical specifications	<ul style="list-style-type: none"> • 3.3 V CMOS inputs • 3.3 V 20 mA CMOS outputs

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"> • 3 W typical OEM version: <ul style="list-style-type: none"> • 2.5 W typical

Software

APIs	Sphinx SDK: <ul style="list-style-type: none"> • Filter driver and acquisition library for Windows • Sample applications, including USB3 Vision/GenICam compliant viewer • Driver installation tool • Documentation
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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"> • European Council EMC Directive 2004/108/EC • United States FCC rule 47 CFR 15
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EMC - Emission	To be confirmed: <ul style="list-style-type: none"> • EN 55022:2010 Class B • FCC 47 Part 15 Class B
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"> • 8116 - Campport CL2CXP3 • 8116-O - Campport CL2CXP3 (OEM)
Optional accessories	1675 - 12V 40W Power Supply Block



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