

PC3621-LH

Coaxlink Mono

CXP-12-LH

General

Product name	PC3621-LH Coaxlink Mono CXP-12-LH
Product code	3621-LH
Product status	Released

Mechanical

Mechanical Specs	<dl> <dt>Form factor</dt> <dd> <p>PCI Express card</p> </dd> <dt>Format</dt> <dd> <p>Low profile, half length, 4-lane PCI Express card</p> </dd> <dt>Cooling method</dt> <dd> <p>Air-cooling, fanless</p> </dd> <dt>Mounting</dt> <dd> <p>For insertion in a 4-lane or higher, PCI Express card slot.</p> <p>Delivered with standard- and low-profile brackets for insertion in a standard- or a low-profile chassis.</p> </dd> <dt>Connectors</dt> <dd> <p>'A' on card bracket:</p> <p>Micro-BNC 75 Ohms coaxial receptacle</p> <p>CoaXPress Host Interface</p> <p>'EXTERNAL I/O' on card bracket:</p> <p>15-pin 3-row high-density D-Sub female socket with UNC4-40 jack socket screws</p> <p>I/O lines and I/O power output</p> <p>'INTERNAL I/O 1' on printed circuit board:</p> <p>26-pin 2-row 0.1" pitch pin header with shrouding</p> <p>I/O lines and I/O power output</p> <p>'I/O EXTENSION' on printed circuit board:</p> <p>26-pin 2-row 0.05" pitch pin header with shrouding</p> <p>I/O extension cable socket</p> <p>'C2C-LINK' on printed circuit board:</p> <p>6-pin 2-row 0.1" pitch pin header with shrouding</p> <p>Card-to-card link</p> <p>'AUXILIARY POWER INPUT' on printed circuit board:</p>
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Mechanical

<p>6-pin PEG power socket</p>
 <p>12 V DC power input for PoCXP and I/O power output</p>
 </dd>
 <dt>LED indicators</dt>
 <dd>
 <p>'A' on bracket:</p>
 <p>Bi-color red/green LED</p>
 <p>CoaXPress Host connector indicator</p>
 <p>'FPGA STATUS LAMP' on PCB:</p>
 <p>Bi-color red/green LED</p>
 <p>FPGA status indicator</p>
 <p>'BOARD STATUS LAMP' on PCB:</p>
 <p>Bi-color red/green LED</p>
 <p>Board status indicator</p>
 </dd>
 <dt>Switches</dt>
 <dd>
 <p>'RECOVERY' on PCB:</p>
 <p>3-pin 1-row 0.1" header or 2-way DIP switch</p>
 <p>Firmware emergency recovery</p>
 </dd>
 <dt>Dimensions</dt>
 <dd>
 <p>PCB L x H: 167.65 mm x 68.9 mm [6.6 in x 2.71 in]</p>
 </dd>
 <dt>Weight</dt>
 <dd>
 <p>Net weight: 159 g [5.6 oz]</p>
 <p>Gross weight: 275 g [9.7 oz]</p>
 </dd>
 </dl>

Form factor

PCIe Card

Cooling method

Air cooling / fan-cooled

Host Bus

Standard

PCIe 3.0

Camera Inputs

Camera Inputs

<dl>
 <dt>Camera interface standard</dt>
 <dd>
 <p>CoaXPress</p>
 </dd>
 <dt>Interface standard(s)</dt>
 <dd>
 <p>CoaXPress 1.0, 1.1, 1.1.1, 2.0 and 2.1</p>
 </dd>
 <dt>Maximum link speed</dt>
 <dd>
 <p>CXP-12</p>
 </dd>
 </dl>

Camera Inputs

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<dt>Maximum link width</dt>
<dd>
<p>1 connection</p>
</dd>
<dt>Camera powering</dt>
<dd>
<p>PoCXP</p>
</dd>
<dt>Connectors</dt>
<dd>
<p>One micro-BNC 75 Ohms (also known as HD-BNC™) CXP-12</p>
</dd>
<dt>Status LEDs</dt>
<dd>
<p>One CoaXPress Host connection status LED per connection</p>
</dd>
<dt>Number of cameras</dt>
<dd>
<p>Area-scan cameras:</p>
<p>One 1-connection camera</p>
<p>Line-scan cameras:</p>
<p>One 1-connection camera</p>
</dd>
<dt>Maximum number of cameras</dt>
<dd>
<p>1</p>
</dd>
<dt>Line-scan cameras supported</dt>
<dd>
<p>Yes</p>
</dd>
<dt>Maximum aggregated camera data transfer rate</dt>
<dd>
<p>12.5 Gbps (1,250 MB/s)</p>
</dd>
<dt>Supported CXP down-connection speeds</dt>
<dd>
<p>1.25 Gbps (CXP-1), 2.5 Gbps (CXP-2), 3.125 Gbps (CXP-3), 5 Gbps (CXP-5), 6.25 Gbps (CXP-6), 10.0 Gbps (CXP-10), and 12.5 Gbps (CXP-12)</p>
</dd>
<dt>Supported CXP up-connection speeds</dt>
<dd>
<p>Low-speed 20.83... Mbps (CXP-1 to CXP-6)</p>
<p>Low-speed 41.66... Mbps (CXP-10, CXP-12)</p>
</dd>
<dt>Number of CXP data streams (per camera)</dt>
<dd>
<p>1 data stream per camera</p>
</dd>
<dt>Maximum CXP stream packet size</dt>
<dd>
<p>16,384 bytes</p>
</dd>

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Camera Inputs

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<dt>PoCXP (Power over CoaXPress)</dt>
<dd>
<p>PoCXP Safe Power:</p>
<p>25 W of 24V DC regulated power</p>
<p>PoCXP Device detection and automatic power-on</p>
<p>Overload and short-circuit protections</p>
<p>On-board 12V to 24V DC/DC converter</p>
<p>A +12V power source must be connected to the AUXILIARY
POWER INPUT connector using a 6-pin PEG cable</p>
</dd>
<dt>Camera types</dt>
<dd>
<p>Area-scan cameras:</p>
<p>Grayscale and color (RGB and Bayer CFA)</p>
<p>Single-tap (1X-1Y) progressive-scan</p>
<p>Line-scan cameras:</p>
<p>Grayscale and color RGB</p>
</dd>
<dt>Camera pixel formats supported</dt>
<dd>
<p>Mono8, Mono10, Mono12, Mono14, Mono16</p>
<p>BayerXX8, BayerXX10, BayerXX12, BayerXX14, BayerXX16
where XX = GR, RG, GB, or BG</p>
<p>RGB8, RGB10, RGB12, RGB14, RGB16</p>
<p>RGBA8, RGBA10, RGBA12, RGBA14, RGBA16</p>
<p>YCbCr601_422_8, YCbCr601_422_10</p>
<p>YCbCr709_422_8, YCbCr709_422_10</p>
<p>YUV422_8, YUV422_10</p>
<p>Raw</p>
</dd>
</dl>

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Camera interface standard

CoaXPress