

PC1628

Grablink Duo

General

Product name	PC1628 Grablink Duo
Product code	1628
Product status	Released

Mechanical

Mechanical Specs	<dl> <dt>Form factor</dt> <dd> <p>PCI Express card</p> </dd> <dt>Format</dt> <dd> <p>Standard profile, half length, 4-lane PCI Express card</p> </dd> <dt>Cooling method</dt> <dd> <p>Air cooling, fan-cooled heatsink</p> </dd> <dt>Mounting</dt> <dd> <p>For insertion in a standard height, 4-lane or higher, PCI Express card slot</p> </dd> <dt>Connectors</dt> <dd> <p>'A' on card bracket:</p> <p>26-position Shrunk Delta Ribbon (SDR) socket with M2 jack socket screws</p> <p>Camera Link camera A input, PoCL output</p> <p>'B' on card bracket:</p> <p>26-position Shrunk Delta Ribbon (SDR) socket with M2 jack socket screws</p> <p>Camera Link camera B input or camera A second cable input, PoCL output</p> <p>'EXTERNAL I/O' on card bracket:</p> <p>26-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>'INTERNAL I/O 2' 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>
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Mechanical

<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>
 <p>6-pin PEG power socket</p>
 <p>12 V DC power input for PoCL and I/O power output</p>
 </dd>
 <dt>LED indicators</dt>
 <dd>
 <p>'A', 'B' on bracket:</p>
 <p>Bi-color red/green LEDs</p>
 <p>Camera Link 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 111.15 mm [6.6 in x 4.38 in]</p>
 </dd>
 <dt>Weight</dt>
 <dd>
 <p>Net weight: 167 g [5.9 oz]</p>
 <p>Gross weight: 272 g [9.6 oz]</p>
 </dd>
 </dl>

Form factor	PCIe Card
Cooling method	Air cooling / fan-cooled

Host Bus

Standard	PCIe 2.0
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Camera Inputs

Camera Inputs	<dl> <dt>Camera interface standard</dt> <dd> Camera Link </dd> <dt>Interface standard(s)</dt> <dd> Camera Link 2.0 </dd> <dt>Maximum link speed</dt> <dd> 85 MHz </dd> <dt>Camera powering</dt>
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Camera Inputs

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<dd>
<p>PoCL</p>
</dd>
<dt>Connectors</dt>
<dd>
<p>Two Shrunk Delta Ribbon (SDR) Miniature Camera Link
(MiniCL)</p>
</dd>
<dt>ECCO - Extended Camera Link Cable Operation</dt>
<dd>
<p>ECCO</p>
</dd>
<dt>Number of cameras</dt>
<dd>
<p>One 80-bit / 72-bit / Full / Medium / Base configuration
camera</p>
<p>Or two Base configuration cameras</p>
</dd>
<dt>Maximum number of cameras</dt>
<dd>
<p>2</p>
</dd>
<dt>Line-scan cameras supported</dt>
<dd>
<p>Yes</p>
</dd>
<dt>Maximum aggregated camera data transfer rate</dt>
<dd>
<p>6.8 Gbps (850 MB/s)</p>
</dd>
<dt>Camera Link configuration</dt>
<dd>
<p>Base, Medium, Full, 72-bit, 80-bit</p>
</dd>
<dt>Camera Link clock frequency</dt>
<dd>
<p>From 20 MHz up to 85 MHz</p>
</dd>
<dt>PoCL (Power over Camera Link)</dt>
<dd>
<p>PoCL Safe Power:</p>
<p>Two independent controllers</p>
<p>PoCL Device detection and automatic power-on</p>
<p>Overload and short-circuit protection</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>Line-scan cameras:</p>
<p>Grayscale and color RGB</p>
</dd>
<dt>Camera pixel formats supported</dt>
<dd>

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Camera Inputs

Mono8, Mono10, Mono12, Mono14, Mono16

BayerXX8, BayerXX10, BayerXX12, BayerXX16 where XX = GR, RG, GB, or BG

RGB8

NOTE: Refer to release notes for availability of BayerXX14, RGB10, RGB12, RGB14 and RGB16 formats

Camera interface standard	Camera Link
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