PC1628
Grablink Duo

General

Product name	PC1628 Grablink Duo
Product code	1628
Product status	Released

Mechanical

Mechanical Specs	<dl> <dt>Form factor</dt> <dd> PCI Express card </dd> <dt>Format</dt> <dd> Standard profile, half length, 4-lane PCI Express card </dd> <dt>Cooling method</dt> <dd> Air cooling, fan-cooled heatsink </dd> <dt>Mounting</dt> <dd> For insertion in a standard height, 4-lane or higher, PCI Express card slot </dd> <dt>Connectors</dt> <dd> 'A' on card bracket: 26-position Shrunk Delta Ribbon (SDR) socket with M2 jack socket screws Camera Link camera A input, PoCL output 'B' on card bracket: 26-position Shrunk Delta Ribbon (SDR) socket with M2 jack socket screws Camera Link camera B input or camera A second cable input, PoCL output 'EXTERNAL I/O' on card bracket: 26-pin 3-row high-density D-Sub female socket with UNC4-40 jack socket screws I/O lines and I/O power output 'INTERNAL I/O 1' on printed circuit board: 26-pin 2-row 0.1" pitch pin header with shrouding I/O lines and I/O power output 'INTERNAL I/O 2' on printed circuit board: 26-pin 2-row 0.1" pitch pin header with shrouding I/O lines and I/O power output 'I/O EXTENSION' on printed circuit board: 26-pin 2-row 0.05" pitch pin header with shrouding

Mechanical

	I/O extension cable socket 'C2C-LINK' on printed circuit board: 6-pin 2-row 0.1" pitch pin header with shrouding Card-to-card link 'AUXILIARY POWER INPUT' on printed circuit board: 6-pin PEG power socket 12 V DC power input for PoCL and I/O power output </dd> <dt>LED indicators</dt> <dd> 'A', 'B' on bracket: Bi-color red/green LEDs Camera Link status indicator </dd> <dt>Switches</dt> <dd> 'RECOVERY' on PCB: 3-pin 1-row 0.1" header or 2-way DIP switch Firmware emergency recovery </dd> <dt>Dimensions</dt> <dd> PCB L x H: 167.65 mm x 111.15 mm [6.6 in x 4.38 in] </dd> <dt>Weight</dt> <dd> Net weight: 167 g [5.9 oz] Gross weight: 272 g [9.6 oz] </dd> </dl>
Form factor	PCIe Card
Cooling method	Air cooling / fan-cooled

Host Bus

Standard	PCIe 2.0

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>

Camera Inputs

<dd>
PoCL
</dd>
<dt>Connectors</dt>
<dd>
Two Shrunk Delta Ribbon (SDR) Miniature Camera Link (MiniCL)
</dd>
<dt>ECCO - Extended Camera Link Cable Operation</dt>
<dd>
ECCO
</dd>
<dt>Number of cameras</dt>
<dd>
One 80-bit / 72-bit / Full / Medium / Base configuration camera
Or two Base configuration cameras
</dd>
<dt>Maximum number of cameras</dt>
<dd>
2
</dd>
<dt>Line-scan cameras supported</dt>
<dd>
Yes
</dd>
<dt>Maximum aggregated camera data transfer rate</dt>
<dd>
6.8 Gbps (850 MB/s)
</dd>
<dt>Camera Link configuration</dt>
<dd>
Base, Medium, Full, 72-bit, 80-bit
</dd>
<dt>Camera Link clock frequency</dt>
<dd>
From 20 MHz up to 85 MHz
</dd>
<dt>PoCL (Power over Camera Link)</dt>
<dd>
PoCL Safe Power:
Two independent controllers
PoCL Device detection and automatic power-on
Overload and short-circuit protection
A +12V power source must be connected to the AUXILIARY POWER INPUT connector using a 6-pin PEG cable
</dd>
<dt>Camera types</dt>
<dd>
Area-scan cameras:
Grayscale and color (RGB and Bayer CFA)
Line-scan cameras:
Grayscale and color RGB
</dd>
<dt>Camera pixel formats supported</dt>
<dd>

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 </dd> </dl>
Camera interface standard	Camera Link