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## Basler Accessories



### Technical Specification

## USB 3.0 CARD PCIe, RENESAS, 1 HC, x1, SATA, 2 PORTS

**Order Number**

**2200000084**

Document Number: DG001770

Version: 02 Language: 000 (English)

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Order Number	Description	Applicable Cameras
2200000084	2-port USB 3.0 Host Controller Card, A-type Receptacle	ace USB 3.0, dart USB 3.0, pulse

Table 1: Host Controller Card Type

## Key Features

With this USB 3.0 host controller card you can add USB 3.0 connectivity to your system, which will allow you to benefit from USB 3.0 features, or you can increase the number of existing USB 3.0 ports. Following is a list of the card's key features:

- PCIe x1 Gen2
- USB 3.0 SuperSpeed 5 Gbps
- Renesas uPD720202 chipset
- Compliant with USB 3.0 Specification Revision 1.0



Basler recommends using Basler-qualified cables. These can be purchased via the Basler website: [www.baslerweb.com](http://www.baslerweb.com)

## Technical Specifications

Physical Dimensions	70 mm x 70 mm
Camera Power Supply	<ul style="list-style-type: none"> <li>■ Via PCIe 12 V (step-down)</li> <li>■ Via SATA 15-pin power connector (5 V)</li> </ul> <p>Basler recommends supplying power to the <math>V_{bus}</math> via the PCIe slot. If you're using the SATA connector, an appropriate external power supply must be used.</p>
USB 3.0	<ul style="list-style-type: none"> <li>■ Compliant with USB 3.0 Specification Revision 1.0</li> <li>■ Supports 2 downstream ports (all speeds)</li> <li>■ Supported data transfer types: <ul style="list-style-type: none"> <li>■ Control</li> <li>■ Bulk</li> <li>■ Interrupt</li> <li>■ Isochronous</li> </ul> </li> <li>■ Backward compatible with high, full, and low speed</li> </ul>
PCIe	<ul style="list-style-type: none"> <li>■ Compliant with PCI Express Base Specification Revision 2.0</li> <li>■ Compliant with Intel's eXtensible Host Controller Interface (xHCI) Specification Revision 1.0</li> <li>■ Compliant with PCI Bus Power Management Interface Specification Revision 1.2</li> </ul>
Transfer Rates	<ul style="list-style-type: none"> <li>■ 1 Camera <ul style="list-style-type: none"> <li>■ Up to 380 MBps <b>per port</b> reliably supported</li> </ul> </li> <li>■ 2 Cameras <ul style="list-style-type: none"> <li>■ Up to 340 MBps <b>total</b> bandwidth reliably supported</li> </ul> </li> </ul>
System Requirements	<ul style="list-style-type: none"> <li>■ Processor <ul style="list-style-type: none"> <li>■ Minimum: Intel Ivy Bridge or higher</li> <li>■ Applications with high transfer rates: Intel Haswell or higher</li> <li>■ Tested by Basler with Ivy Bridge, Haswell, and Skylake processor generations</li> </ul> </li> <li>■ Minimum 4 GB RAM</li> <li>■ Operating System <ul style="list-style-type: none"> <li>■ Windows 7</li> <li>■ Windows 10</li> </ul> </li> </ul>

Table 2: Technical Specifications



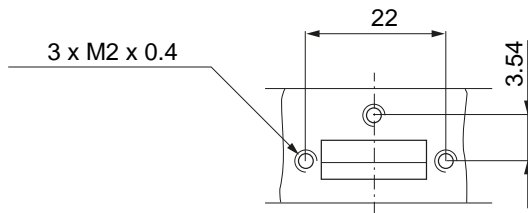
For best performance, always keep drivers updated to the latest version.

## Environmental Specifications

Operating Temperature	5–60 °C
Operating Humidity	10–70 %, relative, non-condensing
Storage Temperature	5–70 °C
Storage Humidity	10–70 %, relative, non-condensing

Table 3: Environmental Specifications

## USB 3.0 Cable Lock Mechanism




Dimensions in mm

Fig. 1: Locking Screw Positions

## General Information

Conformity	CE, RoHS, FCC, VCCI
Warranty	1 year

Table 4: General Information

	<p>This host controller card is suitable for low transfer rates (see <a href="#">page 2</a>). If your application requires higher transfer rates, consider using the USB 3.0 Card PCIe, Renesas, 2 HC, x4, 2 Ports (order number 2200000079). This is available via the Basler website: <a href="http://www.baslerweb.com">www.baslerweb.com</a></p>
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## Revision History

Doc. ID Number	Date	Changes
DG00177001000	13 Dec 2016	Initial release of this document.
DG00177002000	9 Jun 2017	Added environmental specifications in Table 3 on <a href="#">page 3</a> .



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