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## Basler Accessories



### Technical Specification

## USB 3.0 CARD PCIe, RENESAS, 2 HC, x4, 2 PORTS

**Order Number**

**2200000079**

Document Number: DG001771

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Order Number	Description	Applicable Cameras
2200000079	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 x4 Gen2
- USB 3.0 SuperSpeed 5 Gbps
- 2 Renesas uPD720202 chipsets
- 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	110 mm x 70 mm
Camera Power Supply	<ul style="list-style-type: none"> <li>■ Via PCIe 12 V (step-down)</li> </ul>
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 2.1</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 720 MBps <b>total</b> bandwidth reliably supported</li> </ul> </li> </ul> <p>For best performance, use new processor generations, e.g. Skylake.</p>
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



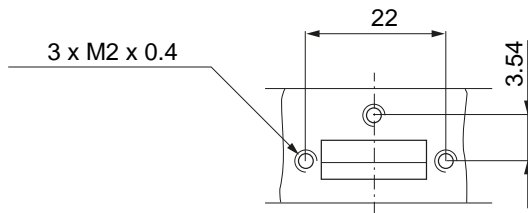
For best performance, always keep drivers updated to the latest version.

## 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



This host controller card is suitable for high transfer rates (see [page 2](#)). If your application works in the medium transfer rate range, consider using the USB 3.0 Card PCIe, Renesas, 1 HC, x1, 2 Ports (order number 2200000084). This is available via the Basler website: [www.baslerweb.com](http://www.baslerweb.com)

## Revision History

Doc. ID Number	Date	Changes
DG00177101000	13 Dec 2016	Initial release of this document.
DG00177102000	16 Jan 2017	Changed PCIe x1 Gen2 to PCIe x4 Gen2 under "Key Features" on <a href="#">page 1</a> .
DG00177103000	9 June 2017	Added environmental specifications in Table 3 on <a href="#">page 3</a> .



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