Basler Accessories

Technical Specification

USB 3.0 CARD PCIe, FRESCO FL1100, 4 HC, x4, 4 PORTS

Order Number
2000036233

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Order Number	Description	Applicable Cameras
2000036233	4-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 per port
- 4 FrescoLogic FL 1100 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

Technical Specifications

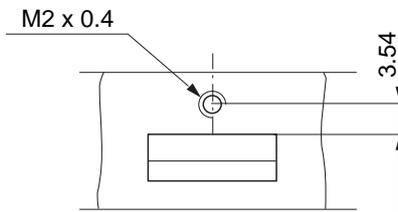| Physical Dimensions	101 mm x 120 mm
Camera Power Supply	■ Via SATA 15-pin power connector (5 V) ■ Via IDE 4-pin DC power connector If you're using the SATA connector, an appropriate external power supply must be used.
USB 3.0	■ Compliant with USB 3.0 Specification Revision 1.0 ■ Supports 4 downstream ports (all speeds) ■ Supports ultra-high performance isochronous applications ■ Backward compatible with high, full, and low speed
PCIe	■ Compliant with PCI Express Base Specification Revision 2.0 ■ Compliant with Intel's eXtensible Host Controller Interface (xHCI) Specification Revision 1.0 ■ Compliant with PCI Bus Power Management Interface Specification Revision 1.2
Transfer Rates	■ 1 Camera ■ Up to 380 MBps **per port** reliably supported ■ Multiple Cameras ■ Up to 1.52 GBps **total** bandwidth reliably supported For best performance, use new processor generations, e.g. Skylake and x8 or x16 PCIe slots.
System Requirements	■ Processor ■ Minimum: Intel Ivy Bridge or higher ■ Applications with high transfer rates: Intel Haswell or higher ■ Tested by Basler with Ivy Bridge, Haswell, and Skylake processor generations ■ Minimum 4 GB RAM ■ Operating System ■ Windows 7 ■ Windows 10

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

Working with Large Image Sizes

If you're working with image sizes above 6 MB, the ring buffer of the Fresco Logic driver must be increased.

To increase the ring buffer:

1. Using the Registry Editor, open the following subkey:

   HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\FLxHCIc\Parameters
2. Right-click the **BulkInRingBuffers** entry, and click **Modify**.

   The default size is 48 pages.
3. Change the value to 256 pages (decimal).

   The new value must be a multiple of 8. The maximum value is 256 pages.
4. Reboot the computer.

If you need more information, please contact Basler Technical Support.

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, Fresco FL1100, 1 HC, x1, 4 Ports (order number 2200000069). This is available via the Basler website: www.baslerweb.com

Revision History

Doc. ID Number	Date	Changes
DG00177201000	13 Dec 2016	Initial release of this document.
DG00177202000	9 Jun 2017	Added environmental specifications in Table 3 on page 3.
DG00177203000	11 Jan 2018	Corrected positioning information in Figure 1 on page 3.

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