

PCIE-1154

PCIE-1158

4-port PCI Express USB Vision Frame Grabber

8-port PCI Express USB Vision Frame Grabber



Features

- Four independent USB 3.0 controllers — Renesas μ PD720202
- PCI Express Gen2 x4 interface, up to 2.0 GB/s
- eFuse power protection
- Protective shell prevents damage to components
- Supports Microsoft Windows 10

Introduction

Advantech's PCIE-1158 is an 8 x port PCIe x4 expansion card based on 4 x Renesas μ PD720202 USB 3.0 host controllers for industrial and machine vision applications that require high transfer speeds. PCIE-1158 features 8 x USB 3.0 ports with 900-mA current to ensure stable power for external USB devices. It is a high-bandwidth industrial-grade expansion card designed for connecting USB 3.0 industrial cameras in machine vision, factory automation, and medical applications.

Specifications

USB

- **Interface** PCI Express x4
- **Connector** 8 x USB 3.0 Type A (PCIE-1158-AE only)
- **Host Bus** 4-lane Gen 2.0 PCIe interface, compliant with PCI Express Base Specification, Revision 2.0
- **Controller** Renesas μ PD720202, Compliant with USB 3.0 Specification and Intel[®] xHCI Specification, Revision 1.0
- **Max Current** 900 mA maximum per port
- **Data Transfer Rate** SuperSpeed; High Speed; Full Speed; Low Speed
- **Power** 5 V_{DC} power output, max. 4.5W per port

Power Requirements

- **Input Voltage** 12 V_{DC} direct from PCIe slot (limited to PCIe design) or AT/ATX system power input
- **Overload Current Protection** Device auto recover after eFuse tripped when rated currents > 2A

Environment

- **Operating Temperature** 0 ~ 60 °C (32 ~ 140 °F)
- **Storage Temperature** -20 ~ 80 °C (-4 ~ 176 °F)
- **Operating Humidity** 5 ~ 95% RH

Mechanics

- **Dimensions (W x D)** 153 x 106 mm (6.02 x 4.17 in)
- **Net Weight** 300 g (.66 lb)

Certification

- **Compliance** FCC CE Class A

Operating Systems

- **OS** Microsoft Windows 10

Ordering Information

Frame Grabber

- **PCIE-1158-AE** 8-port PCIe USB Vision Frame Grabber
- **PCIE-1154-BE(Preliminary)** 4-port PCIe USB Vision Frame Grabber

Optional Cable

- **1700025427-01** USB 3.0 cable, 5 m, Micro B (locking) to Type A
- **1700025428-01** USB 3.0 cable, 3 m, Micro B (locking) to Type A
- **170304015K** A Cable 2*2P-4.2/B4P-5.08*2 15CM