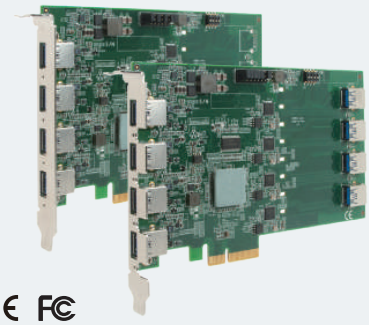
Machine Vision

NEOUSYS TECHNOLOGY

PCIe-USB380/USB340

8-Port/ 4-Port USB3.0 Host Adapter Card with 4x Independent USB3.0 Controllers



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Key Features

- x4 PCI Express® Gen2 interface (2GB/s total bandwidth)
- 8-port/ 4-port by 4x NEC/ Renesas µPD720202 host controller
- On-board 5V DC regulated power supply, no external power needed
- User-configurable 900mA and 1500mA current limit
- Software-programmable per-port power on/ off control
- Supports cable-lock mechanism for reliable cable connection
- Supports Windows XP/ 7/ 8 and Linux
- Compliant with
  - Universal Serial Bus 3.0 specification Rev. 1.0
  - Intel® xHCI specification Rev. 1.0

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Introduction

Neousys PCIe-USB380/ 340 is an 8-port/ 4-port USB3.0 host adapter specifically designed for industrial and vision applications. USB3.0 or SuperSpeed USB, delivers up to ten times the data rate over USB2.0 and is particularly useful for high-speed data storage and imaging devices. Most off-the-shelf USB3.0 cards implement multiple ports with a single USB3.0 controller which results in significant performance degradation during multi-port operation. To achieve maximum per-port performance, PCIe-USB380 has four independent NEC/ Renesas µPD720202 USB3.0 Host Controllers and x4 PCI Express® Gen2 interface to offer up to 5 Gbps bandwidth for each port, independently. In addition to transfer data bandwidth advantage, PCIe-USB380/ 340 features on-board regulated 5V DC power supply with a unique configurable 900mA/ 1500mA current limit to supply stable 5V DC power to external USB devices. It also supports software-programmable per-port power on/ off control for fault recovery operations. Combining high bandwidth, industrial-grade power design and reliable cable connection, PCIe-USB380/ 340 brings convenience to interface USB3.0 devices operating under Windows XP, 7, 8 and Linux.

Specifications

	PCIe-USB380	PCIe-PoE340
USB Ports	8x USB3.0 ports, compatible with USB2.0/ 1.1/ 1.0	4x USB3.0 ports, compatible with USB2.0/ 1.1/ 1.0
USB Connectors	4x panel-accessible USB3.0 Type-A connectors with M2 screw threads 4x on-board USB3.0 Type-A connectors with fix points for cable tie	4x panel-accessible USB3.0 Type-A connectors with M2 screw threads
Bus Interface	4-lanes, Gen2 PCI Express interface, compliant with PCI Express Base specification revision 2.0	
USB Controller	4x NEC/ Renesas µPD720202 host controllers Compliant with Universal Serial Bus 3.0 specification revision 1.0 Compliant with Intel® xHCI specification revision 1.0	
USB Per-Port Current Limit	User-configurable 900mA/1500mA per-port current limit	
Power Requirement	Maximum 2.0A @ 3.3V from PCI Express bus Maximum 5.5A @ 12V from PCI Express bus for devices	Maximum 2.0A @ 3.3V from PCI Express bus Maximum 2.8A @ 12V from PCI Express bus for devices
Operating Temperature	0°C ~ 60°C	
Dimension	168 mm (W) x 111 mm (H)	

Ordering Information

Model No.	Product Description
PCIe-USB380	8-Port USB3.0 host adapter with 4x independent USB3.0 controllers
PCIe-USB340	4-Port USB3.0 host adapter with 4x independent USB3.0 controllers

Optional Accessories

Cbl-U3TA-U3MB-300CM	USB3 Type-A to Micro-B cable with latched connectors, 300cm length

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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