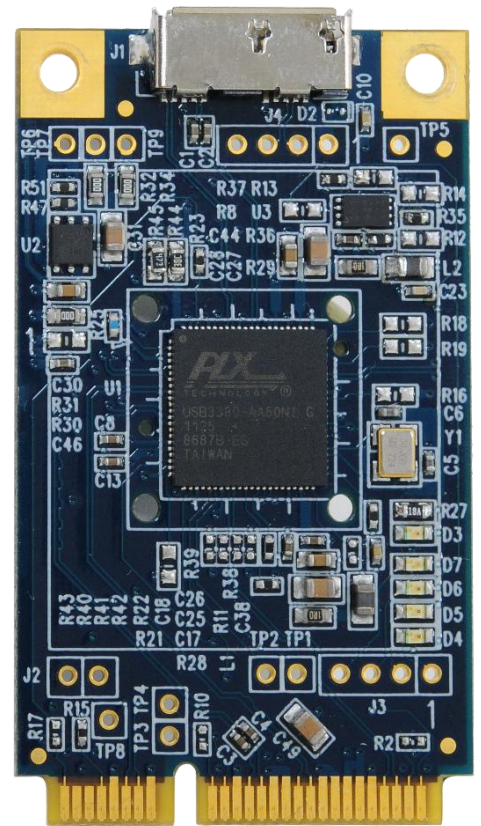


# USB3380EVB

( USB3380 Evaluation Board)

The USB 3380 is a PCI Express Gen 2 to USB 3.0 SuperSpeed Peripheral Controller. It features one PCI Express Gen 2 x1 port and one USB 3.0 SuperSpeed client port. The USB 3380 provides a matching bandwidth at 5 GT/s between the PCI Express Gen 2 bus and the USB 3.0 SuperSpeed bus. The controller can easily add a USB 3.0 client port to an existing PCI Express system, as well as convert an existing PCI Express function (endpoint) to a USB 3.0 product. The USB 3380 can configure the PCI Express port as one x1 upstream port or one x1 downstream port. The flexibility allows different system configurations to achieve the maximum performance of the product.



## Specification:

### USB 3.0 Client Interface

- ◆ USB 3.0 Specification
- ◆ 1 upstream port
- ◆ Supports SuperSpeed, Hi-Speed, Full-Speed modes
- ◆ Four Descriptor-based DMA channels for automatic data transfers
- ◆ Supports USB Duet® Technology
- ◆ USB Auto-Enumeration Technology
- ◆ Support for Bulk, Isochronous, and Interrupt Endpoints
- ◆ USB Power Management USB 3.0 link power management states: U0, U1, U2, U3
- ◆ USB 2.0 link power management states: L0, L1, L2

### PCI Express Interface

- PCI Express Gen 2 (5Gbps)
- Electrical Compliance to PCI Express Base Specification r2.0
- PCIe interface and integrated root complex provides two configurations:
  - one x1 upstream port
  - one x1 downstream port
- PCI Express Power Management All link power management states: L0, L0s, L1, L2/L3 Ready, and L3
- Device states: D0 and D3(hot & cold)
- Vaux, Wake#, Beacon support
- 256 byte maximum payload size
- ExpressCard 2.0 compliance

As a New manufacturer of quality computer connectivity products since 2009/Mar, BPLUS technology brings to market a broad range of upgrade products. These products bridge the connection between Desktop/Notebook systems and external peripherals.



Professional I/O adapter provider

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## Applications

Target applications for the EV adapter as a PCI Express endpoint include PCs, servers, docking stations, printers, and PCI Express embedded systems. The main applications for the USB 3380 as a PCI Express root complex include WLAN dongles, graphics/video dongles, and HDTV tuners/codec.

### USB3380-AB EVK application



#### Migrate a PCI Express Endpoint to a USB 3.0 Product

The USB 3380 is designed to easily convert an existing PCI Express endpoint/adaptor card to a standalone USB 3.0 host.

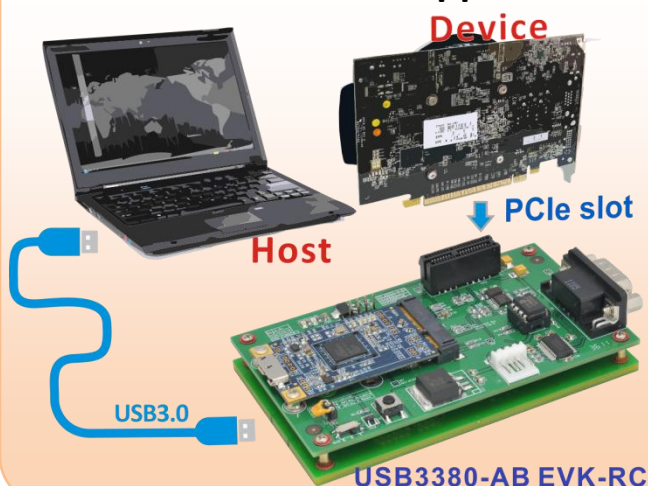
### USB3380EVB-PE3B application



#### Migrate a ExpressCard Endpoint to a USB 3.0 Product

The USB 3380 is designed to easily convert an existing ExpressCard endpoint/adaptor card to a standalone USB 3.0 host.

### USB3380-AB EVK-RC application



#### Add a USB 3.0 Client Port to PCI Express-Based Systems

The USB 3380 can be used to easily add a USB 3.0 client port to any PCI Express based embedded system. As a PCI Express endpoint, the USB 3380's Standard PCI Express interface connects directly to any PCI Express bus.

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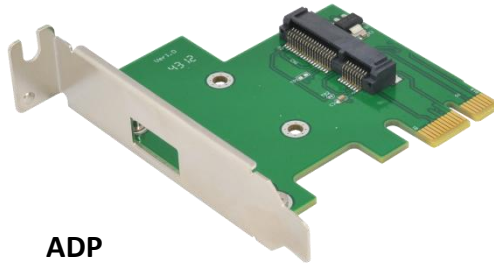
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## USB3380-AB EVK Contents



**USB3380EVB**  
(mini PCI Express to usb 3.0 Adapter) x1



**ADP**  
(mini PCIe to PCIe Adapter) x1



**Y02-U3-150**  
( USB 3.0 A Male to Micro B Male 150cm Cable)



**Screw x2**



Standard Height PCI express bracket x1

## USB3380EVB-PE3B Contents



**USB3380EVB**  
(mini PCI Express to usb 3.0 Adapter) x1



**PE3B**  
(Mini Card to ExpressCard Adapter) x1



**P25AMTDC60**  
(USB A Male to DC Power Cable) x1



**Screw x2**



**Y02-U3-150**  
( USB 3.0 A Male to Micro B Male 150cm Cable)

## USB3380-AB EVK-RC Contents



**USB3380EVB**  
(mini PCI Express to usb 3.0 Adapter) x1



**USB3380RCB** x1



**Y02-U3-150**  
( USB 3.0 A Male to Micro B Male 150cm Cable) x1



**Screw x2**

**GX34W-5-12**  
(AC/DC 100V~240V to DC 12V/2A 5V/2A power adapter)



External 5V/12V power supply cable x1



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# Option

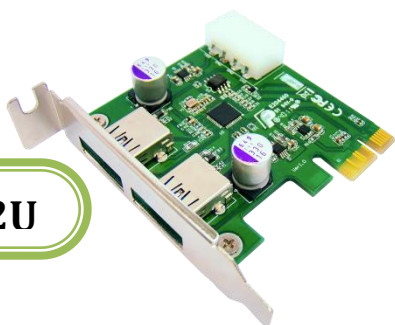


**PP3U**

Legacy PC (PCI slot) <-> PP3U (USB3.0 Host) <-> USB3.0 CABLE <->



USB3380-AB EVK <-> PC (PCIe slot)



**PP2U**

PC (PCIe slot) <-> PP2U (USB3.0 Host) <-> USB3.0 CABLE <->



USB3380EVB-PE3B <-> ExpressCard slot



**EC4U**

Notebook (Expresscard slot) <-> EC4U (USB3.0 Host) <-> USB3.0 CABLE <->



USB3380-AB EVK-RC <-> Add-in Card (PCIe slot)

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