

VIA VL805 chipset VL805 · VL806 - Super Speed USB 3.0 Host Controller

https://www.via-labs.com/product_show.php?id=48

VL805 - 4 port USB3 controller VL806 - 2 port USB3 controller

Description

The VIA Lab's VL805 (4-Port)/VL806 (2-Port) is a USB 3.0 Host controller, which enables a PCI Express equipped platform to interface with USB Super-Speed (5 Gbps), High-Speed (480 Mbps), Full-Speed (12 Mbps), and Low-Speed (1.5 Mbps) devices. The root hub consists of four downstream facing ports enabling the simultaneous operation of multiple peripheral devices.

The VIA Lab's VL805/VL806 complies with the Universal Serial Bus 3.0 Specification and Intel's eXtensible Host Controller Interface (xHCI), and is fully backward compatible with USB 2.0 and 1.1 specifications, ensuring seamless connectivity of legacy USB devices. VL805/VL806 have a PCI Express 2.0 x1 interface backwards compatible with PCI Express 1.0 and is perfectly suited for both PC Host and Add-In Card applications.

Compliant to Universal Serial Bus 3.0 Specification Revision 1.0

Compliant to Universal Serial Bus 2.0 Specification

Compliant to eXtensible Host Controller Interface (xHCI) Specification

Revision 1.0

Supports Legacy USB Function

Compliant with PCI Express Base Specification 2.0

In-house USB PHY employs advanced CMOS process to reduce power consumption

Supports Battery Charging Specification

Firmware upgrade options include integrated firmware in system BIOS

Software

- Initial Driver Support for Windows 7, Vista, and XP
- USB Attached SCSI Protocol (UASP)
- Supports various Linux kernels
- Supports Windows 10, Windows 8 inbox driver

04:00.0 USB controller: VIA Technologies, Inc. VL805 USB 3.0 Host Controller (rev 01) (prog-if 30 [XHCI])

Subsystem: VIA Technologies, Inc. VL805 USB 3.0 Host Controller

Flags: bus master, fast devsel, latency 0, IRQ 29

Memory at fe900000 (64-bit, non-prefetchable) [size=4K]

Capabilities: <access denied>

Kernel driver in use: xhci_hcd

Kernel modules: xhci_pci

Firmware

Versions:

- 00013701 (Raspberry4)
- 00013704 (Windows Driver)
- 000137ab

Firmware are available in Raspberry Pi 4 eeprom repo:

- <https://github.com/raspberrypi/rpi-eeeprom>
- <https://www.geeks3d.com/20191101/raspberry-pi-4-new-firmware-reduces-power-consumption-and-boards-temperatures/>

Update

```
VBoxManage modifyvm "VM name" --pciattach 04:00.0@01:05.0
```

To detach the same device, use:

```
VBoxManage modifyvm "VM name" --pcidetach 04:00.0
```

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