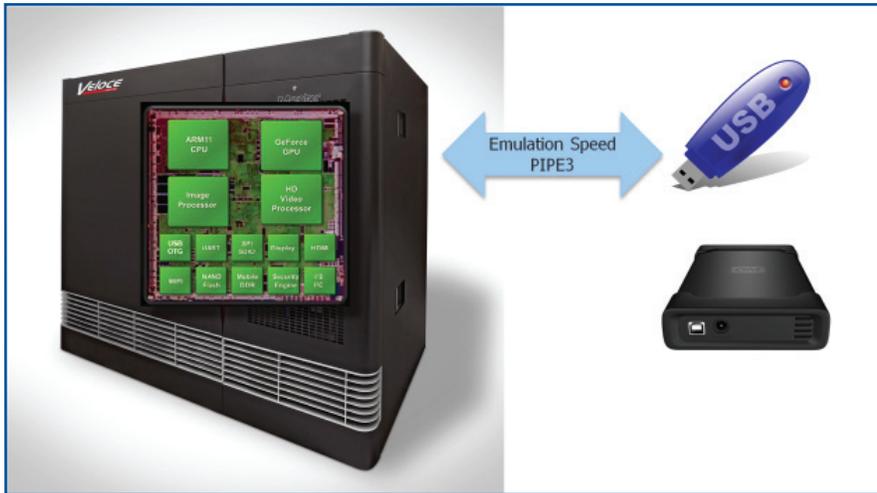


## Virtual USB 3.0 Device



The Virtual USB 3.0 Device models a hard disk drive or similar SuperSpeed mass storage device connected to an SoC emulated with Veloce.

The Virtual USB 3.0 Device provides a high-speed solution for the verification of System-on-Chip (SoC) designs containing a USB host controller that communicates with a USB SuperSpeed peripheral, such as a hard disk drive or portable memory USB device. Together with the Veloce® hardware emulator, the Virtual USB 3.0 Device increases the overall productivity of system-level verification by accurately modelling a USB device that is connected to an SoC design.

The Virtual USB 3.0 Device connects to the USB host interface through a USB 3.0 PIPE3 interface, accommodating a variety of contemporary USB 3.0 systems.

Since the mass storage capacity of the USB 3.0 device is modelled on the PC host memory, the capacity available to the user is very high, and the speed of access very fast, providing a high-performance, productive environment for the verification of USB-based designs.

The product's host interface provides an easy-to-use environment for configuring external USB peripherals. Users are able to control common parameters; including initialization, data uploaded from or downloaded to the USB peripheral, peek and poke values, and configuration of common characteristics of the USB peripheral, such as descriptors.

### PRODUCT FEATURES

- Virtual solution models a complete, standard USB 3.0 SuperSpeed mass storage device, and connects to Veloce over a high-speed co-model link
- USB mass storage modelled using PC memory provides very high capacity (Gbs)
- Supports SuperSpeed USB; compliant with the USB 3.0 specification
- Supports PIPE3 interfaces for flexible USB host controller connectivity
- Models standard USB device requests and mass-storage class specific device requests
- Host application interface provides control over set up, initialization, data upload/download, and configuration of common USB characteristics, such as device speed and descriptors
- Transaction tracing for debug visibility into the USB software stack using the host application

### PRODUCT SPECIFICATIONS

- Host interface support: Linux® Red Hat Enterprise 4 (64-bits), SuSE SLES 10.1 (64-bits)
- Platforms: Veloce family of emulators
- Up to megahertz performance in emulation

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<b>Corporate Headquarters</b> <b>Mentor Graphics Corporation</b> 8005 SW Boeckman Road Wilsonville, OR 97070-7777 Phone: 503.685.7000 Fax: 503.685.1204	<b>Silicon Valley</b> <b>Mentor Graphics Corporation</b> 46871 Bayside Parkway Fremont, CA 94538 USA Phone: 510.354.7400 Fax: 510.354.7467	<b>Europe</b> <b>Mentor Graphics</b> <b>Deutschland GmbH</b> Arnulfstrasse 201 80634 Munich Germany Phone: +49.89.57096.0 Fax: +49.89.57096.400	<b>Pacific Rim</b> <b>Mentor Graphics (Taiwan)</b> Room 1001, 10F International Trade Building No. 333, Section 1, Keelung Road Taipei, Taiwan, ROC Phone: 886.2.87252000 Fax: 886.2.27576027	<b>Japan</b> <b>Mentor Graphics Japan Co., Ltd.</b> Gotenyama Garden 7-35, Kita-Shinagawa 4-chome Shinagawa-Ku, Tokyo 140-0001 Japan Phone: +81.3.5488.3033 Fax: +81.3.5488.3004
<b>Sales and Product Information</b> Phone: 800.547.3000 sales_info@mentor.com	<b>North American Support Center</b> Phone: 800.547.4303			



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