

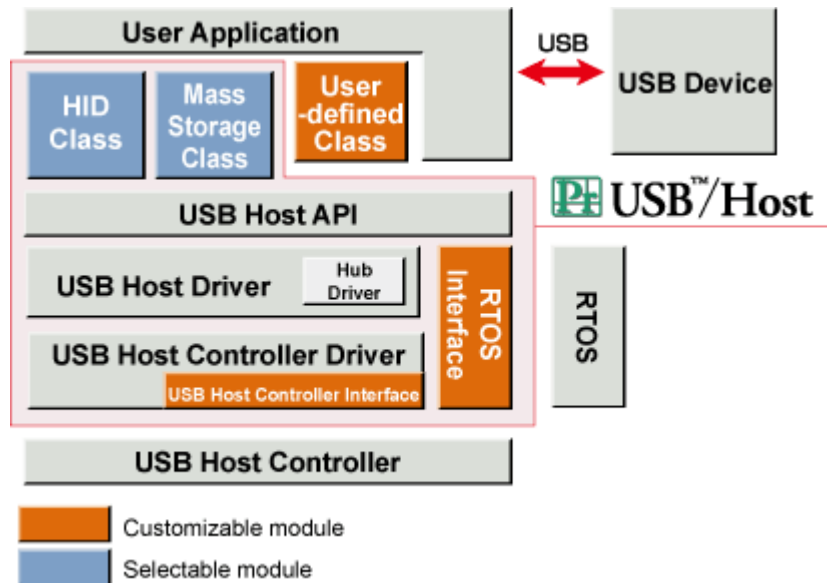
## USB Host Stack and Device Driver

### Product Overview

PrUSB/Host provides the necessary USB device drivers and class drivers needed to implement USB host functionality, allowing an embedded device to act as a USB host. The software has a well-defined layered and modular structure, consisting of driver modules for the controller driver standards, class drivers, and a configuration manager. This modular approach simplifies the process of adding user-defined features.

### Key Features

- ❑ USB1.1 and 2.0 compliant
- ❑ Support for low (1.5Mbps), full (12Mbps), and high speed (480Mbps) USB devices
- ❑ Standard device driver support: UHCI, OHCI, and EHCI
- ❑ Standard class driver support: HID (mouse, keyboard). Mass Storage Class, Communication Device Class drivers (CDC-ACM supported) and Audio Class drivers are available optionally.
- ❑ RTOS independent
- ❑ Ready to use with PrKERNELv4 and eT-Kernel multitasking kernels
- ❑ Modular and layered design
- ❑ Small footprint
- ❑ User configurable
- ❑ Complete source code provided
- ❑ Supports all four kinds of transfer modes including isochronous mode
- ❑ Drop-in support for \*Media Transfer Protocol (MTP)  
(\*Through the optional available product PrMTP/Initiator)



### USB Host Controllers Supported

- Built-in controllers for SH7727, TMS320DM644x, TMS320DM35x
- NEC  $\mu$ PD720101, Seiko Epson S1R72V05, Mentor Graphics' USB IP (MUSBMHDC)

### Compatible Products

- **eBinder**: Integrated development environment
- **eT-Kernel** : T-Kernel-based real time multitasking kernel
- **PrKERNELv4**: Compact real time multitasking kernel
- **PrCONNECT/Pro**: TCP/IP protocol stack
- **PrUSB/Device**: USB device driver
- **PrFILE2**: Portable DOS/Windows-compatible file system

Typical Memory Usage		
CPU: DM644x	Host controller: MUSBMHDC	
Module	ROM (KB)	RAM (KB)
PrUSB/Host	22	139
Host controller driver	12	1
Mass Storage Class driver	13	0

### Licensing

Royalty-free source code license

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