

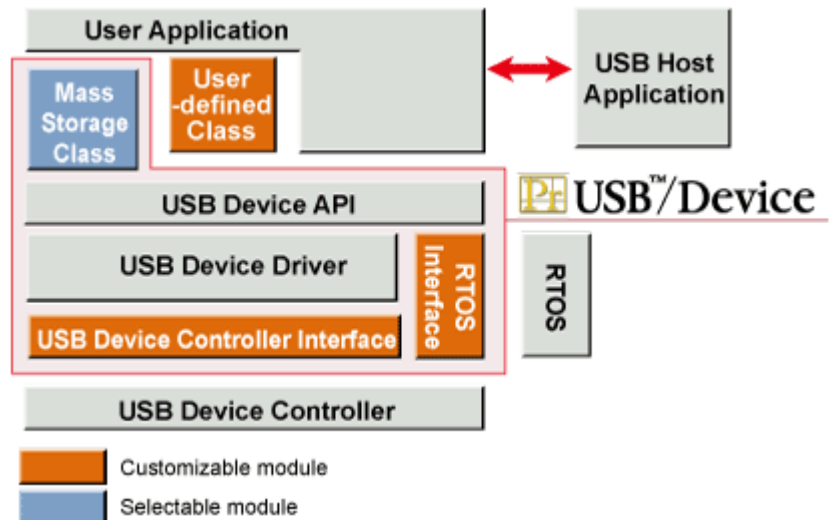
USB Device Driver

Product Overview

PrUSB/Device is a USB device driver and protocol/class set, enabling USB connectivity for your embedded applications. When used in conjunction with an RTOS, developers can easily implement USB device functions on a target system that communicates with a USB-enabled host.

Key Features

- ❑ USB1.1 and 2.0 compliant
- ❑ Supports three transfer modes: control, bulk, and interrupt
- ❑ Support for low (1.5Mbps), full (12Mbps), and high (480Mbps) speed
- ❑ Full RTOS support for PrKERNELv4 and eT-Kernel.
- ❑ Includes Mass Storage Class (MSC) driver
- ❑ Complete source code provided
- ❑ Small footprint
- ❑ User configurable
- ❑ Includes USB verification tool



USB Controllers Supported

- Built-in controllers for SH7727, TMS320DM35x, TMS320DM6446.
- Renesas M66592, Seiko Epson's S1R72V03, S1R72V05 and Mentor Graphics' USB IP (MUSBMHDRC)

Compatible Products

- **PrKERNELv4:** Compact realtime multitasking kernel
- **eT-Kernel:** T-Kernel-based realtime multitasking kernel
- **PrFILE2:** Portable DOS/Windows-compatible file system
- **PrUSB/Host:** USB host driver
- **eBinder:** Integrated development environment

Licensing

Royalty-free source code license.

Typical Memory Usage

CPU	ROM (KB)	RAM (KB)
M66592		
PrUSB/Device	21.4	4.7
Mass Storage Class	9.3	267 (*)
TMS320DM6446		
PrUSB/Device	7	13
Mass Storage Class	5.6	267 (*)

* Includes 256 Kbyte buffer for send/receive

Sample Transfer speed

CPU	Bulk-in (Mbps)	Bulk-out (Mbps)
M66592 (USB 2.0 Full Speed)	10	10.3
TMS320DM6446 (High-speed)	189	124.5

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