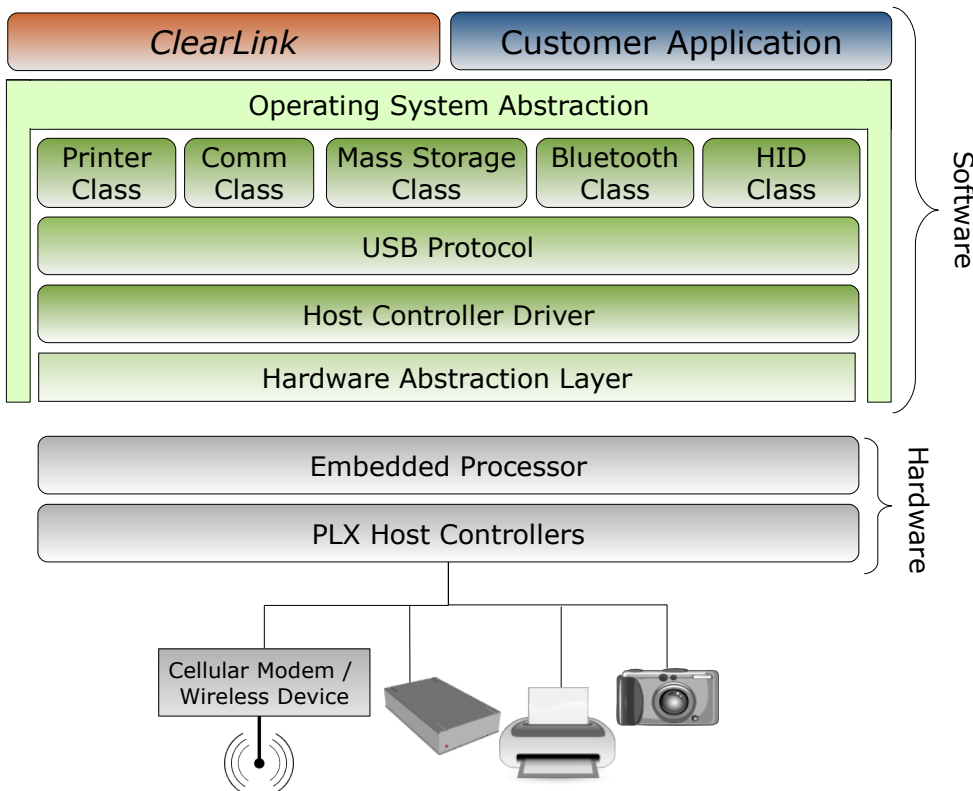


ClearUSB

ClearConnex

The ClearUSB (Universal Serial Bus) is a portable, robust, embedded USB Host and Device software stack that runs on over a dozen embedded operating systems. It provides a complete **off-the-shelf USB solution for your system**. ClearUSB is an important part of the ClearConnex ClearSolution offering, which combines software products and engineering services to help customers get to market quickly and cost effectively

USB is a hot-pluggable serial interface supported on all major PC operating systems (Mac, Linux, Windows). USB may allow you to consolidate a large number of separate and independent buses into a **single communications interface**.



Most external devices can be linked to your system with USB – one of the most widely accepted methods in the world for connecting peripherals to any type of device.

With ClearUSB, embedded systems may connect seamlessly to a wide range of low cost, off-the-shelf peripherals and accessories. Supported devices include flash drives, printers, digital cameras, modems, personal audio devices, mice and keyboards.

The modular architecture allows the USB Host and Device stack to be ported to new OS's or new hardware platforms with minimal effort. Also, the class driver API allows new class drivers to be dynamically added to the system.

ClearUSB supports all PLX USB Controllers and is thread safe for multi-threaded applications.

ClearUSB Features:

- Portable USB Host, Device and On-the-go (OTG) stack for embedded systems
- Supports USB 1.1 and 2.0
- Enables dozens of devices
- Compatible with embedded controllers from PLX
- Modular architecture and system abstractions enable highly simplified Porting and customization
- Supports all transport types (Control, Bulk, Interrupt and Isochronous)
- Runs on most processors. Big and Little Endian supported. Run on 16, 32, and 64 bit processors
- Includes Power Management features
- APIs provided for building class drivers or ClearConnex can help customize and integrate the USB solution in your system.
- Written in ANSI C

For more information: www.clearconnex.com
1021 Main Campus Drive, Suite 300, Raleigh, NC 27607

Supported class drivers:

- Audio Class
- Communication Class (ACM/ECM devices) – Cellular modems, cable modems, dial up modems*
- Digital Still Image Class
- HID
- Hub
- Mass Storage Class* - MP3 players, external hard drives, flash drives
- Printer Class*
- USB to Bluetooth*
- Cable to Cable
- New class drivers can be created

OpenAT/WMP100 port of Clear USB Supported operating systems:

- Sierra Wireless OpenAT
- VxWorks
- Nucleus
- Symbian OS
- ThreadX
- QNX
- MQX
- AMX
- DOS
- ITRON
- Linux
- LynxOS
- OS40
- PowerTV
- SMX
- VRTX

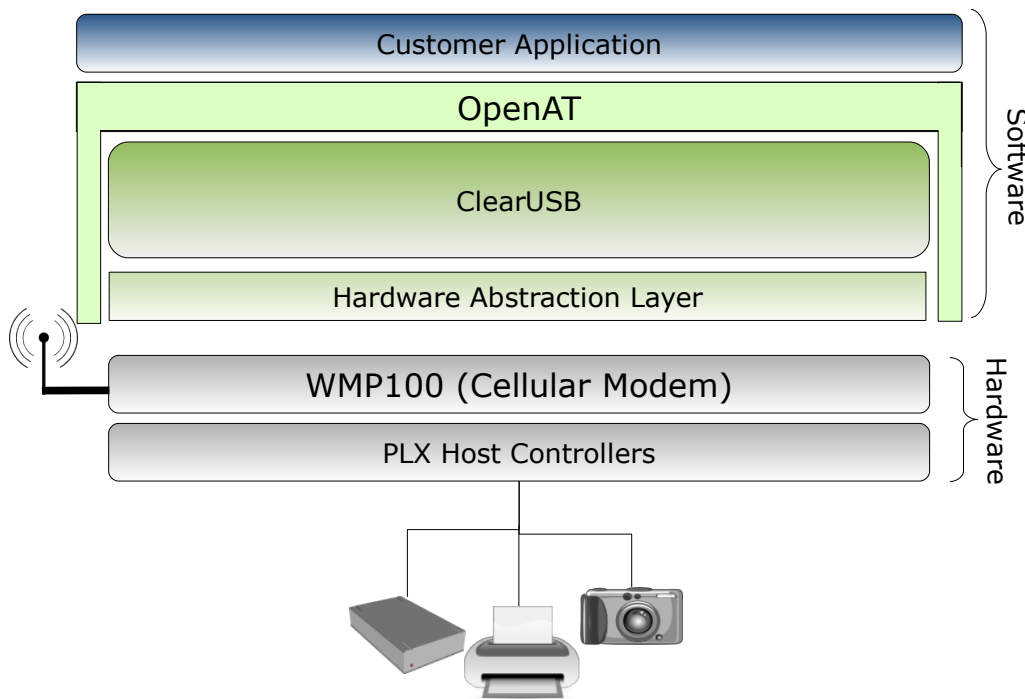
Easily ported to new operating systems

Supported Processors:

- ARM
- Intel x86
- PowerPC
- MIPS
- SH-3 / SH-4 / ST-40
- StrongARM
- Easily ported to new hardware platforms

ClearUSB for OpenAT

ClearUSB for OpenAT is a unique port of the Clear USB. OpenAT has a native USB Device solution that allows Sierra Wireless cellular modems to connect to personal computers. ClearUSB Host is the only OpenAT plug-in that allows USB devices to be plugged into Sierra Wireless cellular modules. This solution allows users to continue to build devices where the entire application runs on the OpenAT based modem, and no external processor is required.



The ClearConnex mission is to build embedded wireless communication products for our customers to meet timely and predictable schedules that achieve the customer's business, time-to-market and technical performance goals. ClearConnex achieves this through expert bundling of software products and engineering services called the ClearSolution.

With the **ClearSolution Software Platform** you will:

- Reduce risk of not meeting business and technical targets
- Shorten the development path thus saving months of engineering cost and effort
- Launch early into market window schedule
- Eliminate delay of reinventing the same foundation all wireless products require
- Take advantage of platform maturity - having been deployed in many products
- Quickly develop your business's unique, high value application

With **ClearSolution Engineering Services** you will:

- Collaborate with seasoned wireless engineering professionals
- Take advantage of decades of experience in building wireless applications
- Comprehend and control the unique challenges of building wireless devices
- Get first rate technical support before, during and after the development of your product.
- Incorporate your business goals in addition to your technical goals.

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