



# USB On-The-Go Software Stack 1.0

## General Description

USB On-The-Go (OTG) is a supplement to the USB specification that increases the capability of existing mobile devices and USB peripherals by adding host functionality to connect to other USB peripherals.

Many of the new peripherals connected to PC's and laptops are portable devices. As these portable devices increase in popularity, there is a growing need for them to communicate directly with each other when a PC is not available. The OTG Supplement addresses this need for mobile inter-connectivity; it defines a way for portable devices, through only one mini-connector, to connect to supported USB products in addition to the PC.

Jungo provides full USB OTG software suit including operation-system integration and a variety of class-drivers and device functionality support. Using Jungo's USB OTG software stack enables device manufacturers to quickly and easily incorporate OTG support for their devices.

## Product Features

- Complete support for USB OTG, Host and Device functionality, including class drivers and device drivers
- Flexible hardware architecture, supporting DMA/non DMA modes, PCI/FPGA and other connectivity forms
- Abstraction layers to enable easy porting and integration to new USB hardware and operating systems

## Product Benefits

- High quality
- Small footprint
- Eliminates substantial development time and costs
- Intuitive APIs, in C code, enables easy Universal Plug and Play incorporation
- Source code available
- Technical support, provided by the engineers who developed the stack

## Technical Specifications

- Full OTG support, including SRP, HNP protocols
- OHCI, UHCI, EHCI and proprietary host controller support
- Synopsys FS-OTG IP Core support
- DMA/Non-DMA mode
- Controller interfaces: PCI, FPGA, non-PCI and proprietary
- Control, Bulk, Interrupt and Isochronous data transfer support
- Variety of class drivers and device functionality support

## Supported Operating Systems

- Linux
- Windows CE.NET
- Wrappers for easy porting to proprietary operating systems

## Footprint

- Linux – 272 KB
- Windows CE – 270 KB

## Class Drivers Support

- Mass Storage
- Remote NDIS/CDC
- HID
- Printer
- Audio
- Hub
- Serial

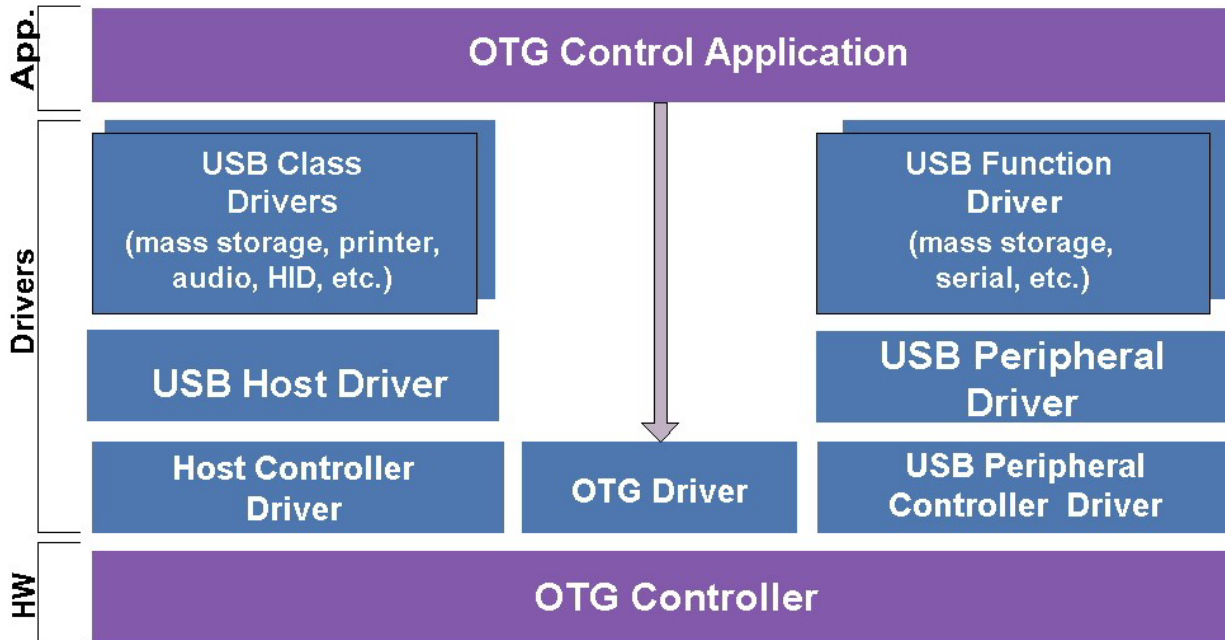
## Device Functionality Support

- Mass Storage
- Serial
- Remote NDIS/CDC
- APIs for developing custom functionality

## Compiler and Code

- Programming language: ANSI C
- Compilers supported: Any 32 bit compiler

## Architecture Diagram



### References:

[http://www.jungo.com/components\\_otg.html](http://www.jungo.com/components_otg.html)

<http://www.usb.org/developers/onthego/>

## About Jungo

Jungo Software Technologies is a leading supplier of residential gateway software solutions, driver development tools and hardware access applications. Jungo offers integrated reference designs with several of the most influential global silicon vendors, enabling its customers to simplify device development cycles, improve performance and accelerate time to market. Jungo is a privately held company with corporate offices in San Jose, California, sales and support offices in Taiwan and an R&D center in Israel. Founded in 1998, Jungo's investors include TeleSoft Partners, Infineon Ventures and Intel Communications Fund. Find out more at <http://www.jungo.com>