

## Installation and Release notes for USB stack.<#>

Updated QNX 4 USB stack is a backport of the QNX 6.5.0 USB stack. It updates support for OHCI, UHCI and EHCI chipsets and provides extended hardware support.

| Last Update | Archive                                    | Version | Release Notes       | Checksum   |
|-------------|--------------------------------------------|---------|---------------------|------------|
| 14-02-2012  | <a href="#">QNX425-USB-20120214.tar.gz</a> | 2.00K   | <a href="#">txt</a> | 4042368701 |

### Changes in version 2.00K<#>

- fixed error with the release of global memory segments (gdts). This error could lead to a gdts leak and depletion of this resource after ~10-15 restarts of the Fsys.umass;
- fixed problem with system freeze after io-usb start on several OHCI controllers;
- fixed problem (on most systems) with USB keyboards or USB mice freeze if the USB keyboard and USB mouse are used at the same time and Net and io-usb are sharing one interrupt line.

### Archive content<#>

The USB 2.0 driver archive for the QNX 4 contains:

| File             | Description                                                  |
|------------------|--------------------------------------------------------------|
| /bin/io-usb      | USB stack; includes support for OHCI, UHCI and EHCI chipsets |
| /bin/io-usb-ehci | tiny USB stack; includes only support for EHCI chipsets      |
| /bin/devu-kbd    | USB keyboard class driver                                    |
| /bin/devu-mouse  | USB mouse class driver                                       |
| /bin/devu-prn    | USB printer class driver                                     |
| /bin/Fsys.umass  | USB mass storage class driver                                |
| /bin/usb         | USB status utility; displays USB device information          |

### Installation notes<#>

To install USB stack driver:

1. Download the archive with USB stack and drivers.
2. Unpack the driver: **# zcat QNX425-USB-20120214.tar.gz | tar x**
3. Compare the cksum results with the checksum on patch/QNX425-USB-20120214/cksum.txt file.

**# cksum patch/QNX425-USB-20120214/bin/\***

4. Backup the existing USB stack components.

If you wish to keep a copy of the existing driver, you'll need to save them to a safe location first, to prevent them from being overwritten during installation.

```
# cp -v /bin/io-usb /bin/io-usb.`date +%y%m%d_%H%M%S`  
# cp -v /bin/devu-kbd /bin/devu-kbd.`date +%y%m%d_%H%M%S`  
# cp -v /bin/devu-mouse /bin/devu-mouse.`date +%y%m%d_%H%M%S`  
# cp -v /bin/devu-prn /bin/devu-prn.`date +%y%m%d_%H%M%S`  
# cp -v /bin/Fsys.umass /bin/Fsys.umass.`date +%y%m%d_%H%M%S`  
# cp -v /bin/usb /bin/usb.`date +%y%m%d_%H%M%S`
```

5. Copy the updated usb stack components to the /bin directory:

```
# cp -v patch/QNX425-USB-20120214/bin/* /bin
```

6. Make sure that the binaries are executable and that the file's owner and group are correct:

```
# chmod 775 /bin/io-usb  
# chown root:root /bin/io-usb
```