

## Firmware Updates

2013-07-06

Download: [OpenDingux Update for GCW Zero](#)

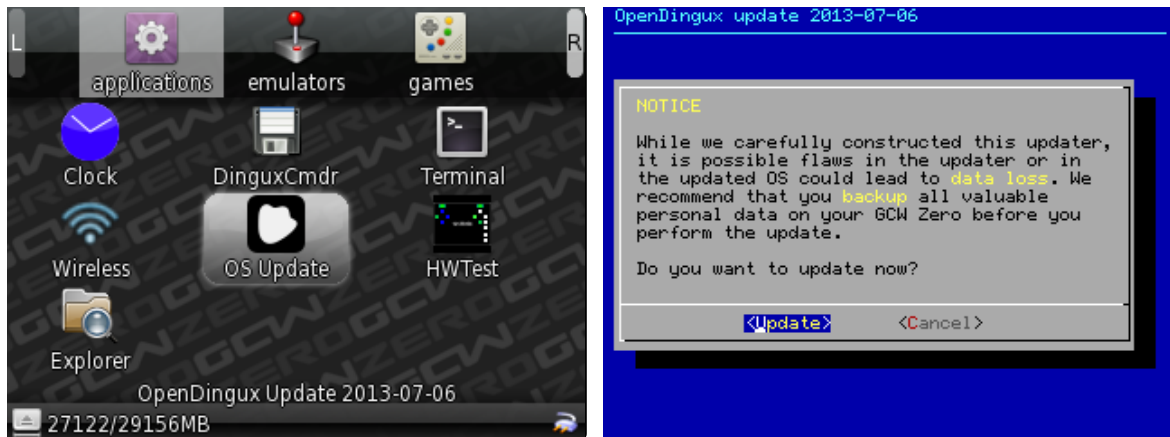
Changes:

- improved video performance (enabled framebuffer caching)
- made vsync more robust (eliminated glitches on page flipping)
- made the FTP server list hidden files (names starting with a dot)
- improved Unicode support in both gmenu2x and command line tools
- fixed bug that powered off the system if the power slider was raised, released, then raised again soon after
- list IP addresses in System Info application
- added unrar command line tool
- added shared memory support (allows more applications to be ported)

### How it works

First make sure you have a backup of all valuable user data you have on your GCW Zero, such as save games.

Download the most recent updater application above. Transfer the application (OPK file) to the `apps/` directory on your GCW Zero. Then start the application from the menu:



You can select an option with the d-pad and confirm your choice with the `START` button.

While the update is in progress, you'll see progress information being printed showing what the updater is doing. The update process takes a few minutes, please be patient while it does its work, even if you don't see anything happening for a while on the screen. The output should look like this:

```
Update in progress - please be patient.
```

```
Installing updated root filesystem...
```

```
Flushing write cache...
```

```
Installing updated kernel...
```

```
Flushing write cache...
```

```
Verifying checksum of updated root filesystem...
```

```
Verifying checksum of updated kernel...
```

```
Verifying checksum of updated bootloader...
```

```
Committing changes. Please wait...
```

```
OpenDingux update 2013-07-06
```

```
Update complete!  
The system will now restart.
```

```
If for some reason the system fails to boot,  
try to press the following keys while powering  
on the device:  
-X to boot the last working kernel,  
-Y to boot the last working rootfs.
```

```
Note that pressing both keys during the  
power-on sequence will load the very same  
Operating System (kernel + rootfs) you had  
before upgrading.
```

```
< OK >
```

When you press **START** again, the system will restart. After the restart you can check that the new kernel and rootfs were installed in the System Info application:



```
Kernel version: 3.9.0-dingux-00192-ga5d497d  
Compiled on Sat Jul 6 22:28:30 CEST 2013  
  
Root file system version: 2012.11.1-g2957c5c  
Compiled on Sat Jul 06 19:09:21 CEST 2013
```

```
Processor: JZ4770
```

```
Total RAM for applications: 510536 kB
```

```
Network interfaces:  
usb0 10.1.1.2
```

```
<Press START to exit>
```

The compile date for the kernel and rootfs should be equal to or very close to the date of the updater application.

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