

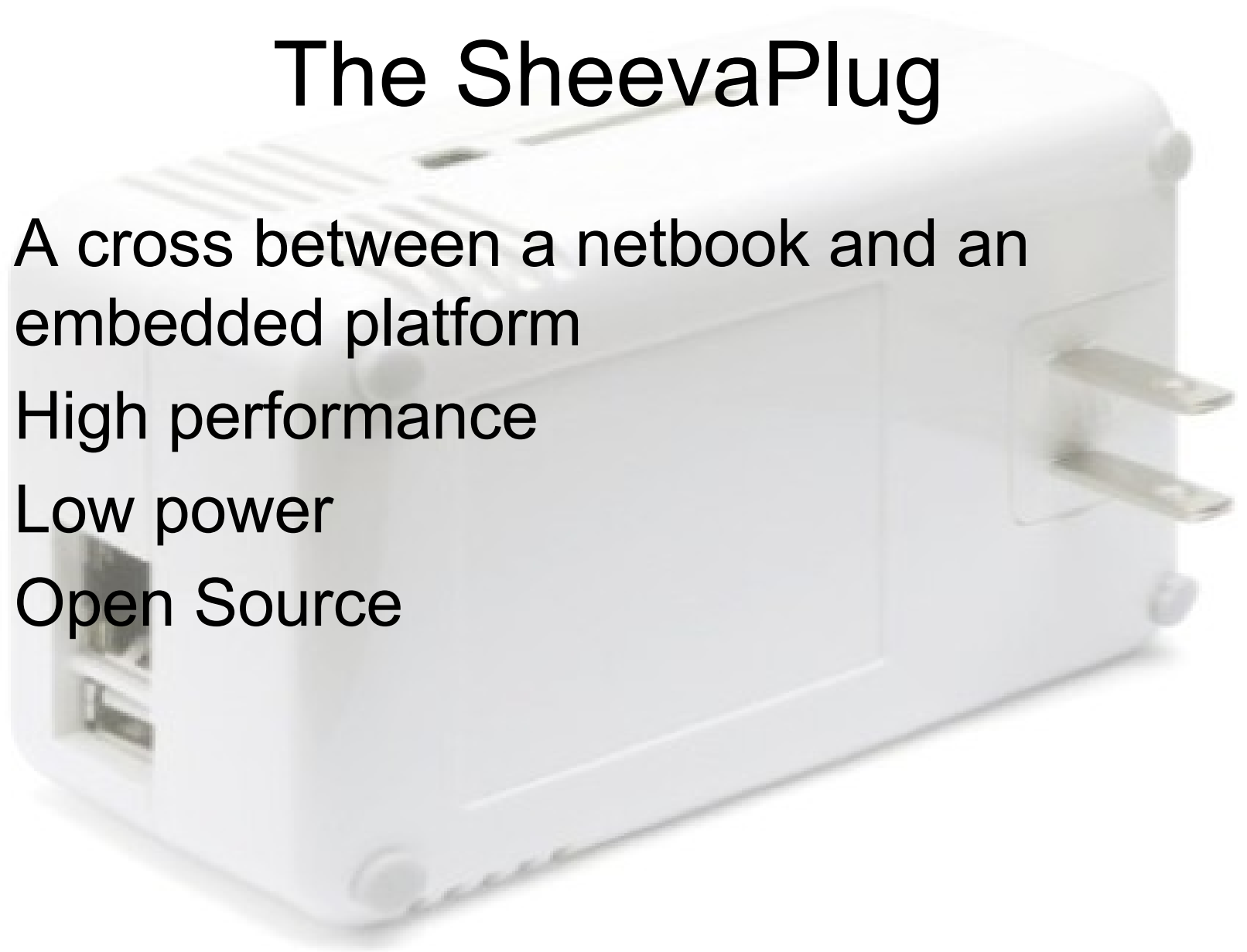
The Marvell SheevaPlug

Kevin McGregor

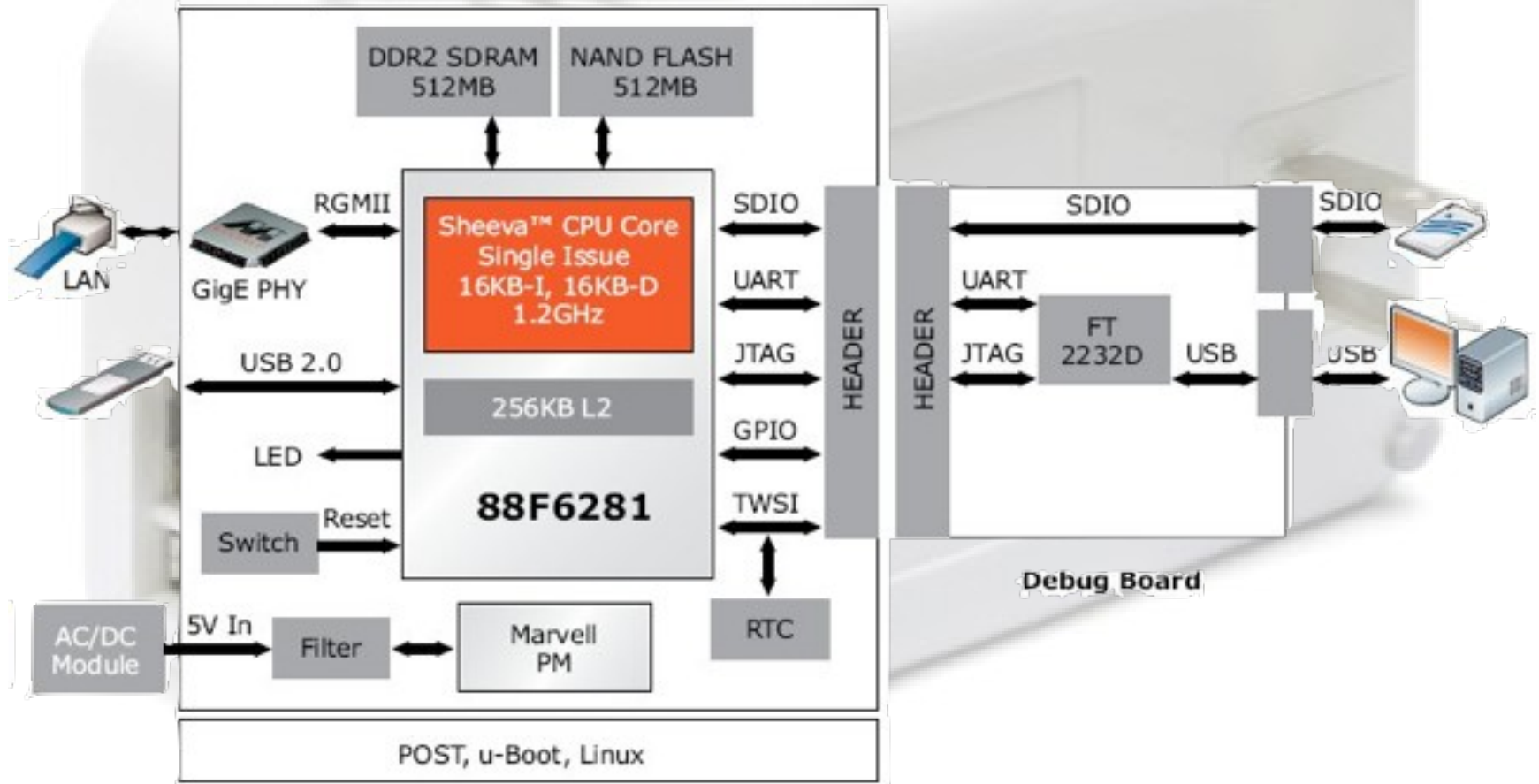
March 9, 2010

The SheevaPlug

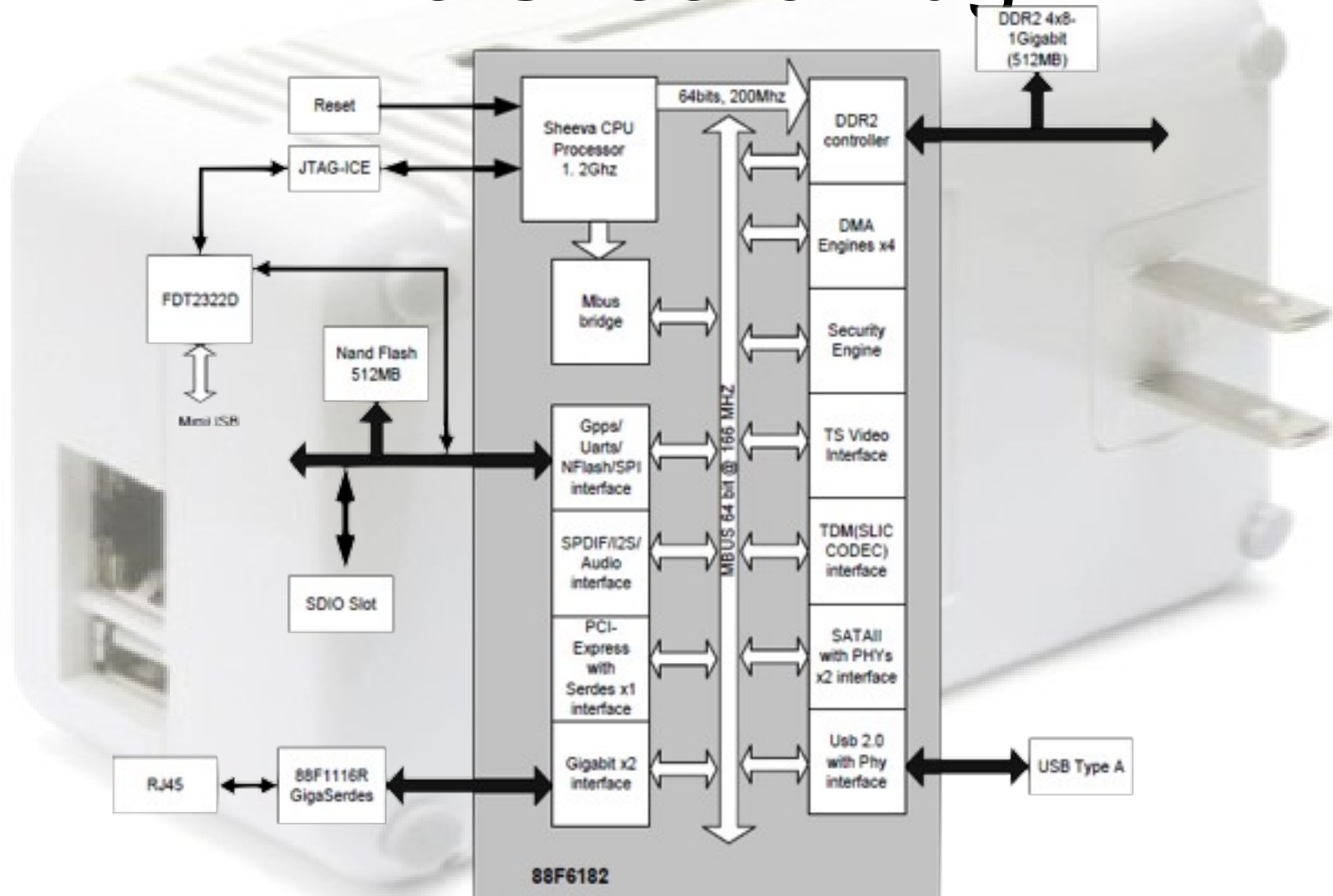
- A cross between a netbook and an embedded platform
- High performance
- Low power
- Open Source



The SheevaPlug



The SheevaPlug



The SheevaPlug

The image shows a white, rectangular SheevaPlug device. It has a USB port on the left side and two metal pins on the right side. The device is shown from a slightly elevated perspective, highlighting its compact and minimalist design.

- 1.2 GHz Marvell ARMv5TE (no FPU) aka Feroceon 88F6281 SoC
- 512 MB RAM
- 512 MB NAND Flash
- JTAG
- Serial over USB
- SDIO
- 1 x Gig Ethernet
- 1 x USB 2.0

The SheevaPlug

- Development Kit is available from GlobalScale Technologies and others



The SheevaPlug

- Uses are limited to services that can be provided by Linux in 512 MB with an SD card, one USB device and Ethernet



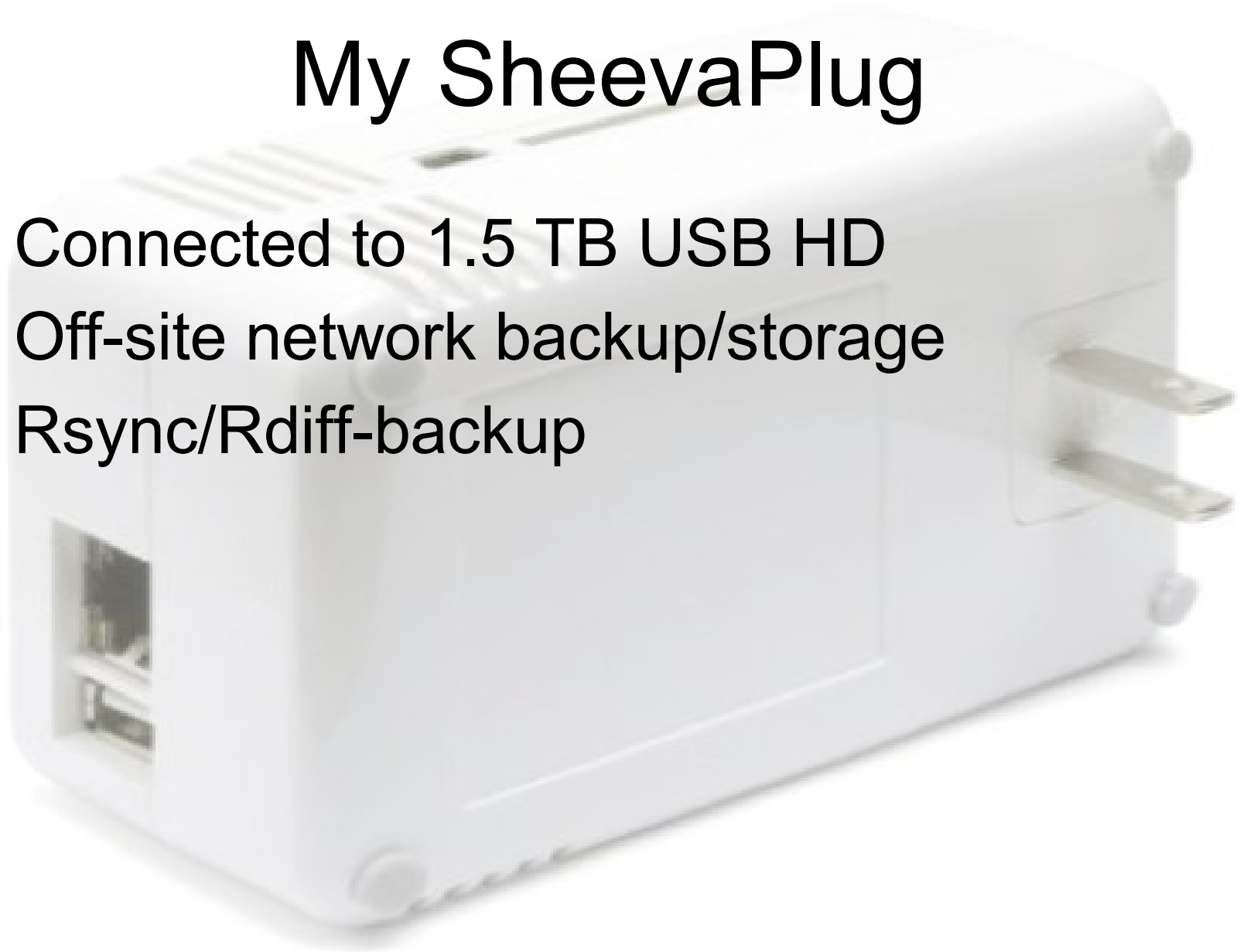
The SheevaPlug OS Support



- Debian
- Gentoo
- Ubuntu
- Fedora
- Angstrom
- SlugOS
- Slackware
- FreeBSD
- Plan 9
- Inferno

My SheevaPlug

- Connected to 1.5 TB USB HD
- Off-site network backup/storage
- Rsync/Rdiff-backup



GuruPlug Server



- US\$99
- External JTAG (not incl.)
- 802.11n
- Bluetooth
- U-SNAP I/O (Zigbee, Z-Wave)
- 1 GigE
- 2 USB 2.0

GuruPlug Server Plus

- US\$129
- 2 GigE
- 1 eSATA
- 1 MicroSD



GuruPlug Display

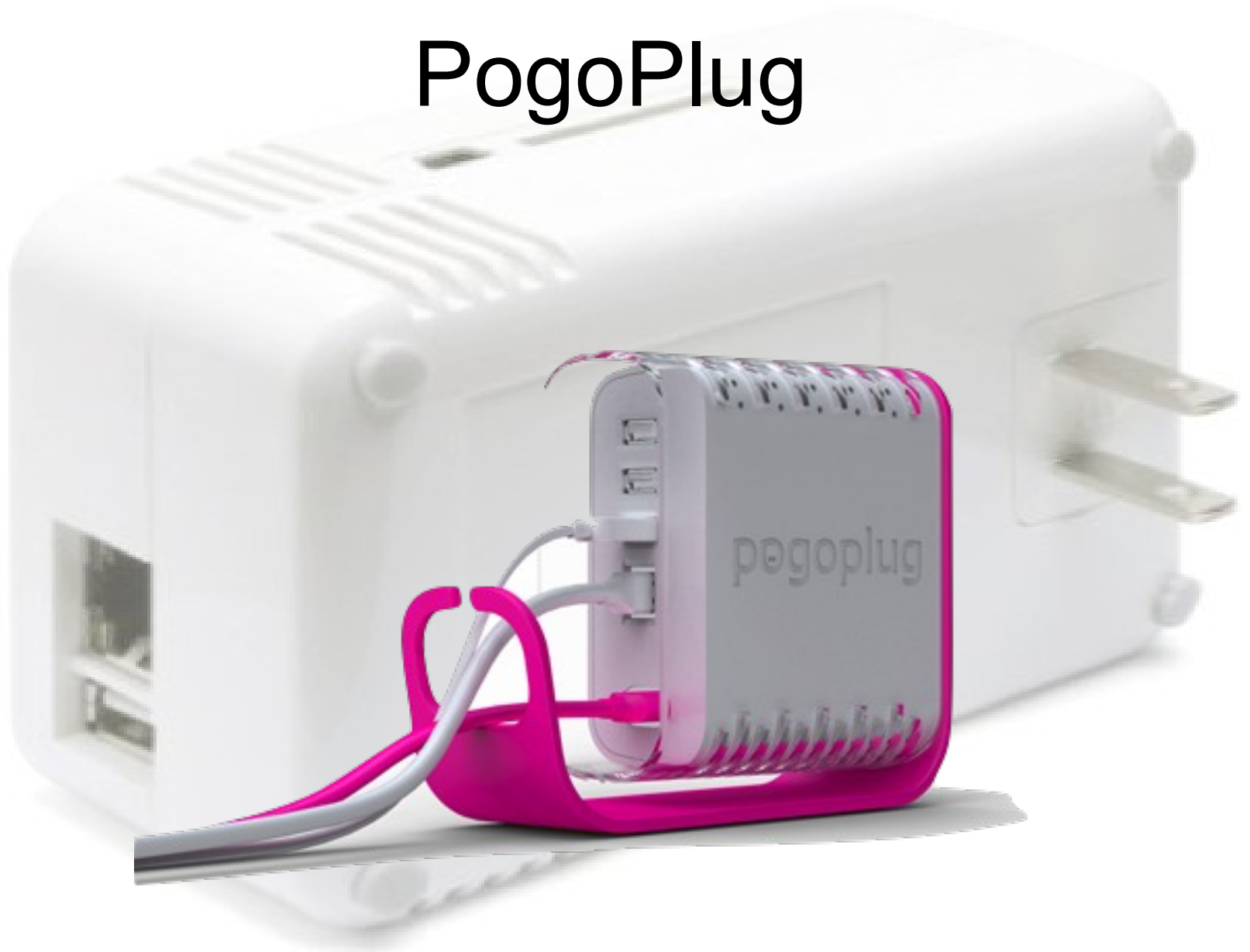


- US\$179
- 3 USB 2.0
- 1 Fast Ethernet
- 802.11n
- HDMI
- 1 MiniUSB
- 1 MicroSD

The SheevaPlug 3.0?

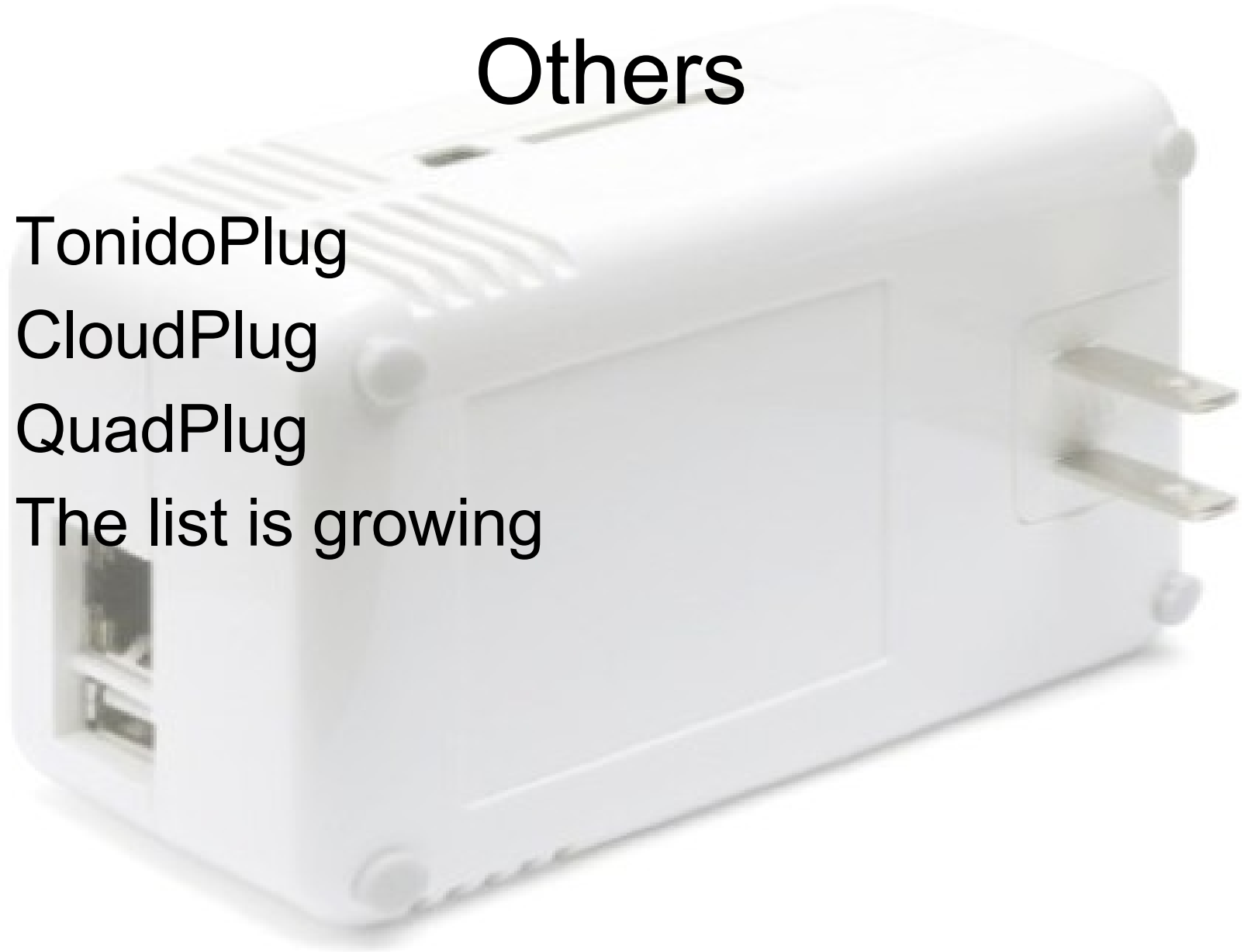


PogoPlug



Others

- TonidoPlug
- CloudPlug
- QuadPlug
- The list is growing



Very Brief Demo

- Warning 1: Loose serial cable
- Warning 2: Stock OS needs a few tweaks



Question Period



Resources



- Plugcomputing.org
- <http://www.cyrius.com/debian/kirkwood/sheevaplug/>
- http://computingplugs.com/index.php/Main_Page
- http://www.openplug.org/plugwiki/index.php/Main_Page
- <http://plugcomputer.org/plugforum/index.php>
- <http://blog.zortrium.net/archives/35>