# Sony Mobile phone debug board

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## What is demonstrated

Mainline top-of-tree Linux kernel (linux-next) running on Xperia hardware connected to a universal debug board.

### Debug board capabilities:

- Software controlled (USB-ACM) power supply with 0-15V programmable output to provide power to the device (max 10W) with monitoring.
- UART interface presented as a second USB-ACM port adapting to LV-TTL levels from 1V to 5V or RS-232 levels.
- Up to 3 buttons emulated (for instance to power on, enter bootloader mode etc.). Board can be reconfigured by host to provide 6 GPIOs instead.
- USB VBUS switch to simulate USB cable disconnect. V3 board allows automated switching between host-mode and device-mode.
- Optional dummy load add-on for charging testing.

## What was improved

- Adapters to connect directly to internal debug port in Xperia devices and to development boards.
- Bootloader unlocking information for Xperia devices: http://unlockbootloader.sonymobile.com
- Source code or detail technical information availability:
  - ![Source code or detail technical information availability](https://github.com/andersson/kernel.git)
  - ![Source code or detail technical information availability](http://elinux.org/Sony_Debug_Assist_board)