ODROID

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Products
Amlogic S905
ODROID-C2
Exynos5 Octa
ODROID-XU4
Amlogic S805
ODROID-C1+
ODROID-C0
Display
ODROID-VU5
ODROID-VU7 Plus
ODROID-VU7
16x2 LCD + IO Shield
C1 3.2inch TFT+Touchsc
LED Matrix Shield
ODROID-SHOW2
3.5inch Touchscreen Sh
Power Supply & Battery
RTC Backup Battery
RTC Shield
UPS2 for C1
UPS3
5V/2A Power Supply
5V/2A Power Supply EU
5V/2A Power Supply US
5V/4A Power Supply EU
5V/4A Power Supply Rou
5V/4A Power Supply US
5V/6A Power Supply
3000mAh Battery
750mAh Battery
Cases
ODROID-C2/C1+ Cases
ODROID-XU4 Cases
VuShell for VU7
3.5inch LCD Shield Cas
Connectivity
IR Remote Controller
WiFi Module 0
WiFi Module 3
WiFi Module 4
WiFi Module 5
Bluetooth Module 2
Ethernet Cable CAT6
USB GPS Module
Camera
USB-CAM 720P

Products

Obsolete products > ODROID-W [ODROID-W]

Feature	Technical Detail	FAQs

ODROID-W

ODROID-W is a miniature computing module which is fully compatible with all software available for the Raspberry-Pi.

The **W** stands for:
 - **W**earable device development
 - **Wi**dely applicable Internet of Things (IoT) development
 - **W**orkable DIY electronics prototyping

STORE IN US :   http://ameridroid.com/
STORE IN GERMANY :   http://www.pollin.de
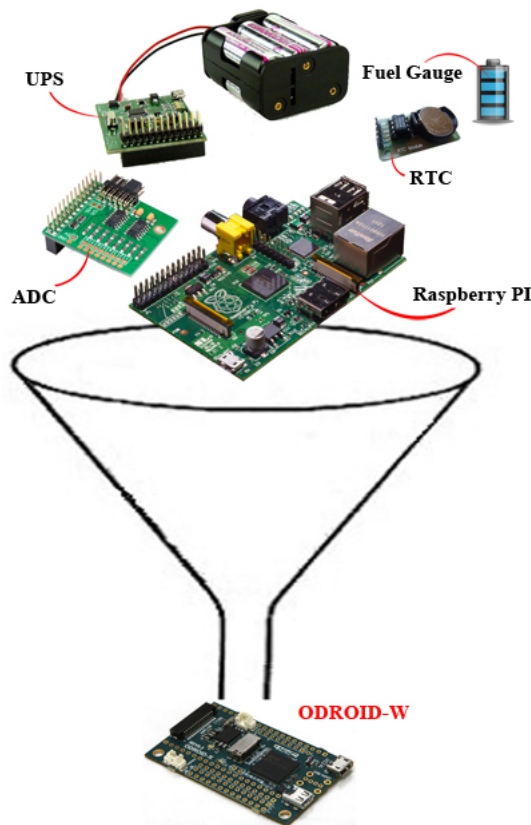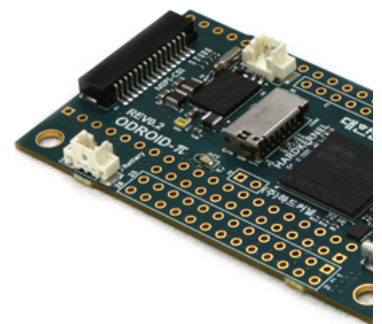
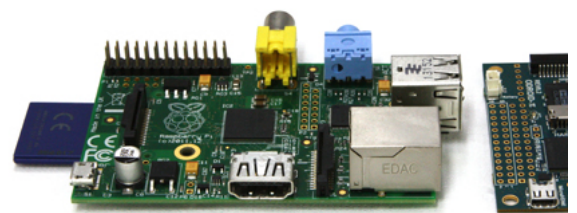| Sold Out	판매종료
$30.00	36,000원(부가세 별도)
Worldwide shipping	한국 배송(Korean only)

The ODROID-W measures a very small 60 x 36 x 7mm (2.4 x 1.4 x 0.3"). new fe improvements over the original Raspberry Pi:

- Li+ rechargeable battery charger and fuel gauge for portables, wearable and
- Real Time Clock to keep accurate time without an Internet connection by just a
- 12-bit precision ADC to measure the dynamic voltage signals via two single-e
- DC/DC step-down converters for higher power efficiency
- DC/DC step-up converter for 5Volt rails (USB host and HDMI) from a Li-Polyme
- USB Host port can be placed on top or bottom as preferred
- DIY friendly 0.1inch/2.54mm pitch IO connector (up to 32 GPIO ports) for hand

ODROID-W = RPI + RTC + ADC + UPS + Battery gauge with significant Minima

ODROID-W

OPTIONAL ACCESSORIES

W Docking Board	W Docking Board with TFT LCD	W Connector Pack	RTC Backup Battery	8GB Micro SD Card W Linux	HDMI Cable	750mAh Battery	ODROID-VU
WiFi Module 3	USB-CAM 720P	Smart Power	ODUINO One	Bluetooth Module	5V/2A Adaptor		

DEVELOPMENT HISTORY

In early 2014, we had an important project with our partner companies to help them to prototype a few wearable & IoT devices.

At that time, we considered using the ODROID-U3 as a base platform. The ODROID-U3 is much faster than the Raspberry Pi, but the power consumption of the U3 is not suitable for wearable devices like watches or necklaces.

We even considered using the Raspberry Pi itself due to the lower power consumption and nice Linux BSP support, but the PCB of the RPi was huge (much bigger than the ODROID-U3).

To create the smallest wearable accessory possible, we decided to make our own (tiny) version of a Raspberry Pi, which allows full use of many widely available Pi peripherals such the Pi Camera module connector and 26-pin GPIO port.

The HDMI port and SD slot were changed to micro- sized connectors, and the MIPI DSI port was removed due to limited PCB space.

- PCB Revision 0.1

The first sample PCB (rev 0.1) was designed on April 14, 2014, and had a few jumper wires.
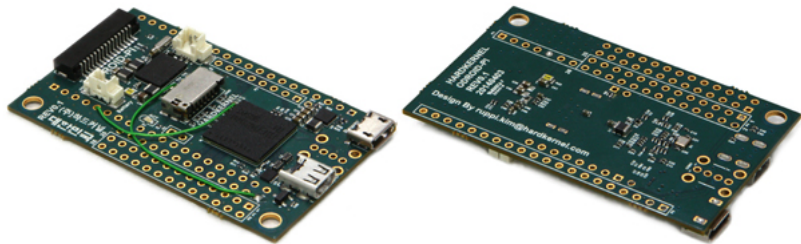
- PCB Revision 0.2

The second run was designed on May 19, 2014, which corrected some of the electronics designs and added an eMMC module socket for test purposes. Note t
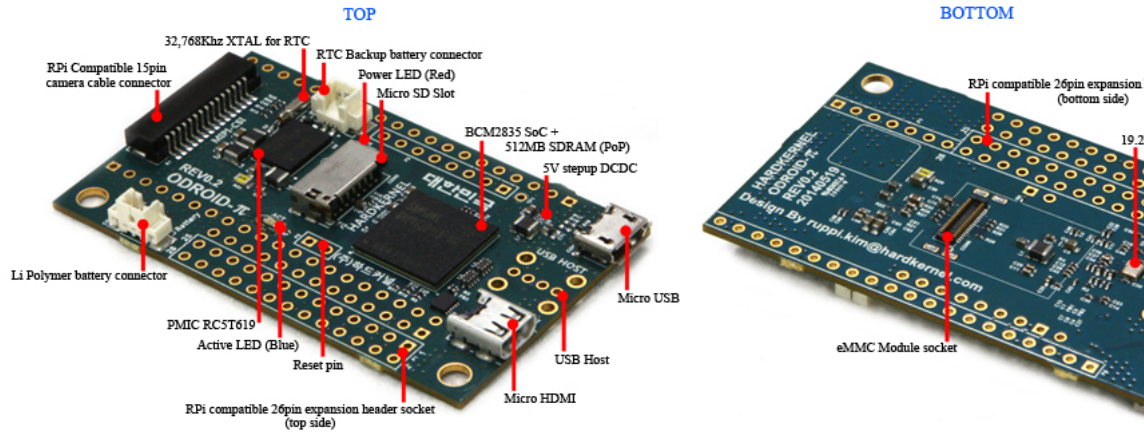
much faster than SD card due to the slow eMMC host speed in the SoC. We could see only ~10% improvement.

- PCB Revision 0.3

There is no big different from Revision 0.2. It is for the mass production.

MAKE YOUR OWN SMART WATCH

ODROID-W Smart Watch Project

HARDWARE SPECIFICATION

Processor	Broadcom BCM2835 ARM11 700Mhz
memory	Samsung 4Gbit (512MB) LPDDR2 SDRAM
PMIC	Ricoh RC5T619 includes DCDCs, LDOs, ADCs, RTC, Battery charger and Fuel gauge
DCDC	TI TPS61259 is 5Volt step-up DCDC for USB host and HDMI block
Video Output	HDMI type-D (Micro-HDMI)
USB	High-speed USB 2.0 host
GPIO connectors	RPi compatible 13x2-pin header on the top side as well as bottom side for 2-way stacking 20+6 pin header for additional GPIO/ADC/Power/USB connection Total 32 GPIOs and 2 ADCs are available.
Camera connector	15pin MIPI-CSI2 (Pi Camera module compatible)
Memory card slot	Micro-SD (T-Flash)
Power	Micro-USB socket for 5Volt input Li-Polymer battery connector (Molex 53398-0271) http://forum.odroid.com/viewtopic.php?f=104&t=6547
RTC power	Backup battery connector (Molex 53398-0271)
Dimensions	60 x 36 mm
Weight	8 gram

Raspberry Pi or RPi is a trade mark of Raspberry Pi Foundation.

You can discuss all the development issues in this forum.
http://forum.odroid.com/viewforum.php?f=102