



## WarpX.io - Open Hardware / Open Source for Wearables & IoT

> warpX.io Community

### What is demonstrated

**Warp** is a completely open-source (both hardware and software), ultra small form-factor application processor based embedded system running the latest Linux kernel and Yocto OS. Designed for wearables, sensors, and IoT devices.

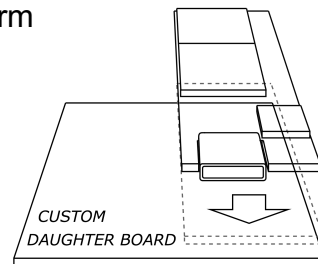
We created our community, [WarpX.io](https://warpX.io), to support and promote the development of these devices. Visit our community for all the design files and source code!

#### Hardware Overview for warp\_0x01:

- > 1Ghz ARM / 512MB Ram / 4GB Flash / Wi-Fi+BT / accel
- > Self contained compute platform
- > Can be battery powered (on-board charger/monitor)
- > Lots of I/O: GPIO, UART, SPI, I2C, EPDC, I2S, more
- > Open-hardware and open-source platform

#### Hybrid Design Architecture

HDA is a messaging architecture enabling rapid prototyping and easy expansion with application specific peripherals using traditional MCUs as a sensor hub (Differs from traditional carrier boards as Warp is fully self contained)



### What was improved



#### Efficient Battery Usage

Achieves very low sleep currents  
< 13mW in suspend



#### Fast to Boot & Resume

Boots in seconds (< 5s depending on configuration) and resumes near instantly (typ. under 200ms).



#### Small Form Factor

At 16mm x 38mm in size, Warp can easily be integrated into designs and speed up development. One of the smallest SBCs.



#### Easy OS Upgrades

Web interface to install software or OS upgrades via open-source SWUpdate framework.

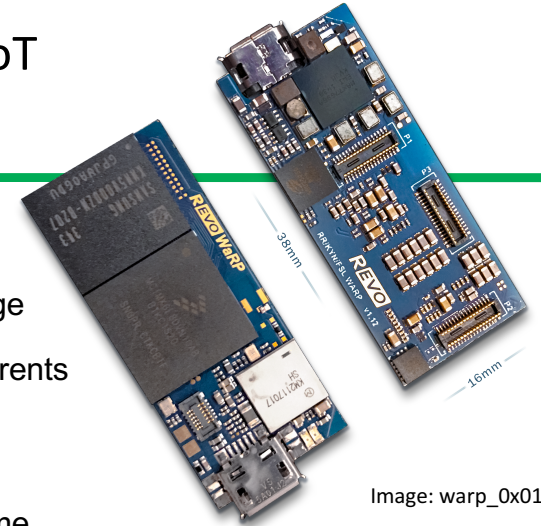


Image: warp\_0x01

### Source code & detailed technical information available

Join our community and find sources at:

> **warpX.io**

