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Welcome to the ADALM-PLUTO Active Learning Module

Thank you for purchasing the ADALM-PLUTO Active Learning Module (PlutoSDR). The easy to use ADALM-PLUTO active learning module (PlutoSDR) helps introduce electrical engineering students to the fundamentals of software-defined radio (SDR), radio frequency (RF), and wireless communications. Designed for students at all levels and from all backgrounds, the module can be used for both instructor-led and self-directed learning to help students develop a foundation in real-world RF and communications that they can build on as they pursue science, technology, or engineering degrees.

Based on the AD9363, The PlutoSDR features independent receive and transmit channels that can be operated in full duplex. The active learning module can generate or acquire RF analog signals from 325 MHz to 3800 MHz at up to 61.44 megasamples per second (MSPS). Small enough to fit in a shirt pocket, the PlutoSDR is completely self-contained and entirely USB powered with the default firmware. Because PlutoSDR is enabled by libiio drivers, it supports OS X® , Windows®, and Linux®, which allows students to learn and explore on a variety of host platforms.

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The PlutoSDR on line documentation provides instruction on how to set up the software on your host PC to use the ADALM-PLUTO Active Learning Module.

- Using the ADALM-PLUTO with MATLAB
- Using the ADALM-PLUTO with GNU Radio
- Using the ADALM-PLUTO with other tools

Detailed documentation can be found at the Main Documentation page. Information on regulatory compliance and safety information can be found online.

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ADALM-PLUTO Firmware refers to the U-Boot, HDL, Linux kernel, device drivers, and userspace software, that runs on the PlutoSDR which enales the device to communicate to USB host. This is bundled up and given a specific version number for the ADALM-PLUTO device. For help upgrading firmware, check out the online documentation.

Status of the PlutoSDR firmware:

Newer version available online (Version v0.32)

Check the latest version

Version Information:

The various parts of the firmware all have their own unique versions as well:

Model	Analog Devices PlutoSDR Rev.B (Z7010-AD9363)
Serial	104473222a87001016001d009db5d51c4b
Build	v0.21
Linux	Linux pluto 4.6.0-08783-g1cc7526 #142 SMP PREEMPT Fri May 26 12:55:16 CEST 2017 armv7l GNU-Linux
U-Boot	U-Boot PlutoSDR v0.20-PlutoSDR-00041-g4bdff59 (May 26 2017 - 13:07:26 +0200)
FPGA	2016_r2-148-gee39
Root FS	v0.20-23-gd3724
IIO	Library version: 0.9 (git tag: 60063cb)

Configuration Settings:

On the root file system, there are configuration settings that can modify the default configuration, they currently are:

Hostname	pluto
IP Address (PLUTO)	192.168.2.1
IP Address (HOST)	192.168.2.10
Netmask	255.255.255.0
MAC Address (PLUTO)	00:05:f7:1e:3a:b1
MAC Address (HOST)	00:e0:22:f5:3c:c3

WIFI

SSID	
WPA-PSK Passphrase	********
IP Address	

To change these settings, check the on-line documentation.

Help and Support

Help and support for the ADALM-PLUTO is provided exclusively on-line. If you don't have an internet connection on this computer, please find one that does.

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