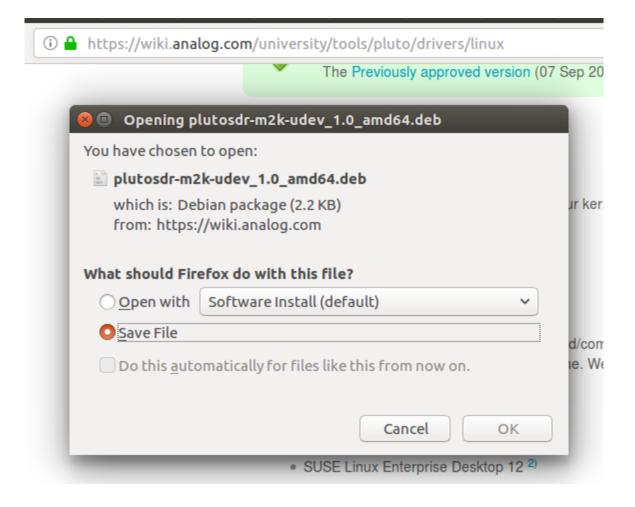
PlutoSDR Basic Environment Settings

Innova Lee(이상훈) gcccompil3r@gmail.com

😕 🗇 🗊 Terminal File Edit View Search Terminal Help sdr@sdr-Samsung-DeskTop-System:~\$ sudo vi /etc/udev/rules.d/53-adi-plutosdr-usb.rules

```
😰 🖃 🗊 Terminal File Edit View Search Terminal Help
 1 # allow "plugdev" group read/write access to ADI PlutoSDR devices
 2 # DFU Device
 3 SUBSYSTEM=="usb", ATTRS{idVendor}=="0456", ATTRS{idProduct}=="b674", MODE="0664", GROUP="plugdev"
4 SUBSYSTEM=="usb", ATTRS{idVendor}=="2fa2", ATTRS{idProduct}=="5a32", MODE="0664", GROUP="plugdev"
 5 # SDR Device
6 SUBSYSTEM=="usb", ATTRS{idVendor}=="0456", ATTRS{idProduct}=="b673", MODE="0664", GROUP="plugdev"
7 SUBSYSTEM=="usb", ATTRS{idVendor}=="2fa2", ATTRS{idProduct}=="5a02", MODE="0664", GROUP="plugdev"
8 # tell the ModemManager (part of the NetworkManager suite) that the device is not a modem.
9 # and don't send AT commands to it
10 SUBSYSTEM=="usb". ATTRS{idVendor}=="0456", ATTRS{idProduct}=="b673", ENV{ID_MM_DEVICE_IGNORE}="1"
11 SUBSYSTEM=="usb", ATTRS{idVendor}=="2fa2", ATTRS{idProduct}=="5a02", ENV{ID MM DEVICE IGNORE}="1"
```



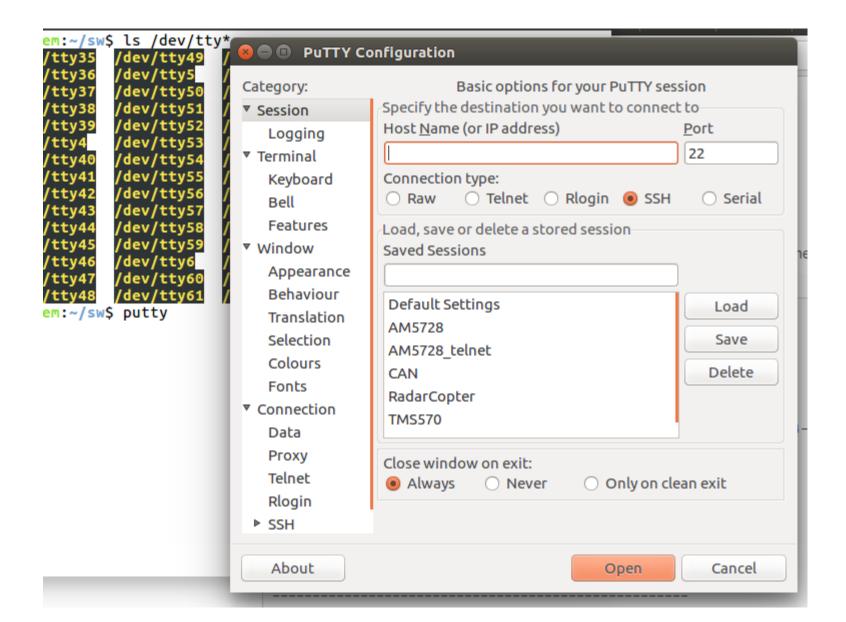
```
sdr@sdr-Samsung-DeskTop-System:~$ ls
android
                                               petalinux zyng
Android
                                               Pictures
apmplanner2
                                               PlayOnLinux's virtual drives
arduino
                                               project
                                               Public
Arduino
C++
CarND-System-Integration
                                               qt workspace
clion
                                               self_drive
CLionProiects
                                               SW
Desktop
                                               Templates
Documents
                                               test
down ccs
                                               Texas_Instruments
Downloads
                                               ti
down qt
                                               ti-processor-sdk-linux-am335x-evm-05.01.00.11
examples.desktop
                                               ti-processor-sdk-linux-am57xx-evm-04.03.00.05
                                               ti-processor-sdk-linux-am57xx-evm-05.00.00.15
foo
                                               tmp boot
fpga
Hardware Setup App for ADALM PLUTO Radio.txt
                                               tmp fs
                                               tms570 workspace
i2c_proj
install vivado
                                               udacity
ір_геро
                                               usb
lab
                                               verilog
                                               Videos
lab fpga
lecture
                                               vmware
matlab exam
                                               workspace v8
modelsim.ini
                                               Xilinx Zyng Based Radio.txt
modelsim.ini.bak
                                               zynq fpga
Music
                                               zvng test
ту_ргој
                                               zyng workspace
                                               zyną zybo
ocv
sdr@sdr-Samsung-DeskTop-System:~$ cd sw
sdr@sdr-Samsung-DeskTop-System:~/sw$ mv ~/Downloads/plutosdr-m2k-udev 1.0 amd64.deb ./
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

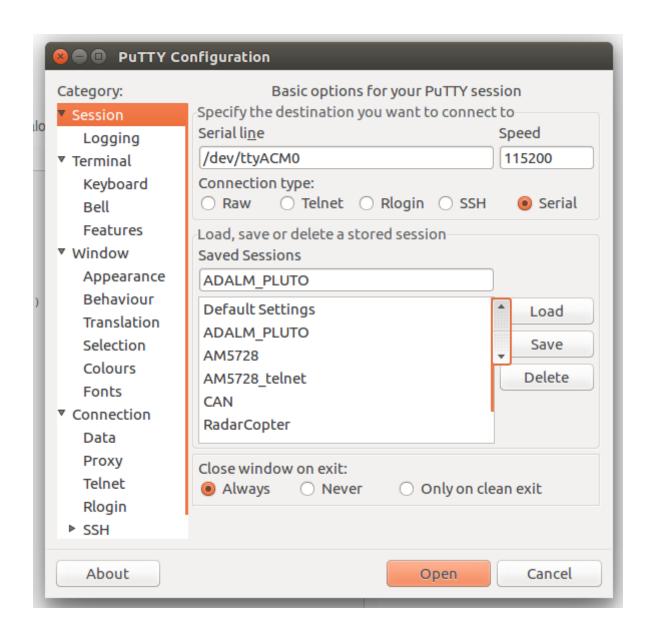
```
sdr@sdr-Samsung-DeskTop-System:~/sw$ ls
addon_matlab cuda MathWorks_tools plutosdr-m2k-udev_1.0_amd64.deb sdk
alex dataset data matlab 2018
                                                                       serial
                                       awt
                     modelsim
                                      rfsdk
              iso
                                                                       test source
asm
             libiio opencv
                                      road data
boost
                                                                       vmware
sdr@sdr-Samsung-DeskTop-System:~/sw$ sudo dpkg -i plutosdr-m2k-udev 1.0 amd64.deb
Selecting previously unselected package plutosdr-m2k-udev.
(Reading database ... 401910 files and directories currently installed.)
Preparing to unpack plutosdr-m2k-udev 1.0 amd64.deb ...
Unpacking plutosdr-m2k-udev (1.0) ...
Setting up plutosdr-m2k-udev (1.0) ...
sdr@sdr-Samsung-DeskTop-System:~/sw$ udevadm control --reload-rules
root privileges required
sdr@sdr-Samsung-DeskTop-System:~/sw$ sudo service udev restart
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

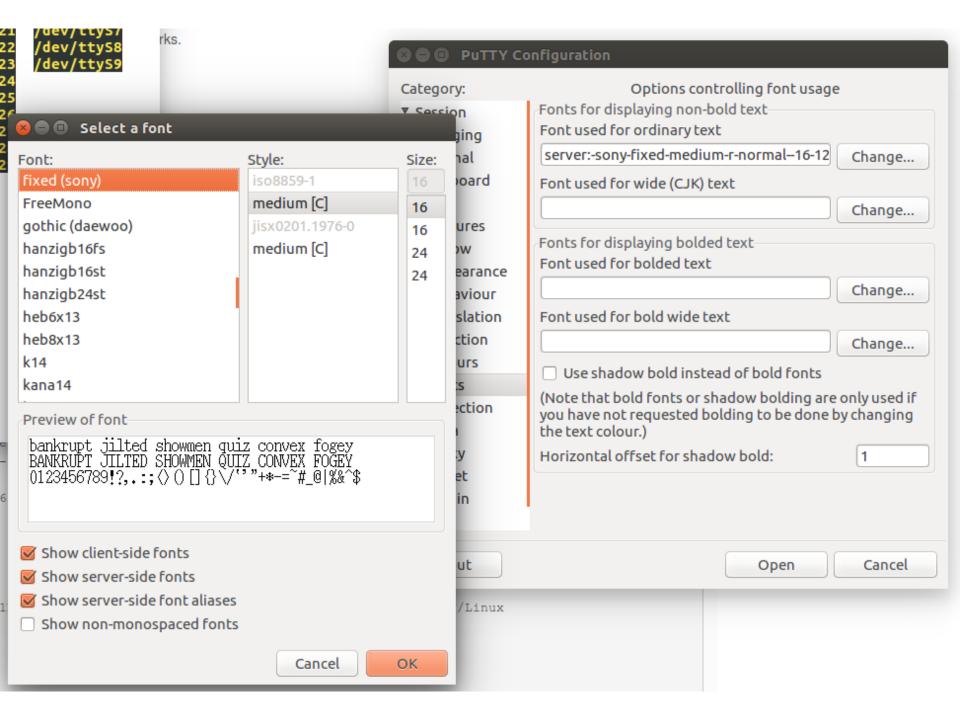
```
59.460010] wlp4s0: associate with bc:96:80:b0:8a:b1 (try 1/3)
    59.463474] wlp4s0: RX AssocResp from bc:96:80:b0:8a:b1 (capab=0x411 status=0 aid=3)
   59.463565] wlp4s0: associated
   59.585081] IPv6: ADDRCONF(NETDEV CHANGE): wlp4s0: link becomes ready
   59.785124] userif-2: sent link down event.
   59.785125] userif-2: sent link up event.
   63.021758] userif-2: sent link down event.
   63.021759] userif-2: sent link up event.
 1634.266296] usb 3-7: new high-speed USB device number 4 using xhci hcd
 1634.415848] usb 3-7: New USB device found, idVendor=0456, idProduct=b673
 1634.415851] usb 3-7: New USB device strings: Mfr=1, Product=2, SerialNumber=3
 1634.415853] usb 3-7: Product: PlutoSDR (ADALM-PLUTO)
 1634.415855] usb 3-7: Manufacturer: Analog Devices Inc.
 1634.415857] usb 3-7: SerialNumber: 104473dc59930019190021000fc929245e
 1634.647077] cdc acm 3-7:1.3: ttyACM0: USB ACM device
1634.647320] usbcore: registered new interface driver cdc acm
[ 1634.647321] cdc acm: USB Abstract Control Model driver for USB modems and ISDN adapters
1634.663484] usb-storage 3-7:1.2: USB Mass Storage device detected
[ 1634.663543] scsi host6: usb-storage 3-7:1.2
1634.663606] usbcore: registered new interface driver usb-storage
[ 1634.666303] usbcore: registered new interface driver uas
[ 1634.701378] usbcore: registered new interface driver cdc ether
[ 1634.709600] rndis host 3-7:1.0 eth0: register 'rndis host' at usb-0000:00:14.0-7, RNDIS device, 00:
e0:22:8f:a3:81
[ 1634.709633] usbcore: registered new interface driver rndis host
[ 1634.717493] usbcore: registered new interface driver rndis wlan
[ 1634.719252] rndis host 3-7:1.0 enx00e0228fa381: renamed from eth0
1634.755918] IPv6: ADDRCONF(NETDEV UP): enx00e0228fa381: link is not ready
1634.956287] userif-2: sent link down event.
[ 1634.956289] userif-2: sent link up event.
[ 1635.666755] scsi 6:0:0:0: Direct-Access
                                             Linux File-Stor Gadget 0409 PO: 0 ANSI: 2
[ 1635.667105] sd 6:0:0:0: Attached scsi generic sq4 type 0
[ 1635.667833] sd 6:0:0:0: [sdd] 61441 512-byte logical blocks: (31.5 MB/30.0 MiB)
[ 1635.668073] sd 6:0:0:0: [sdd] Write Protect is off
[ 1635.668076] sd 6:0:0:0: [sdd] Mode Sense: 0f 00 00 00
[ 1635.668310] sd 6:0:0:0: [sdd] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
1635.672297] sdd: sdd1
[ 1635.673786] sd 6:0:0:0: [sdd] Attached SCSI removable disk
[ 1637.112109] userif-2: sent link down event.
[ 1637.112111] userif-2: sent link up event.
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

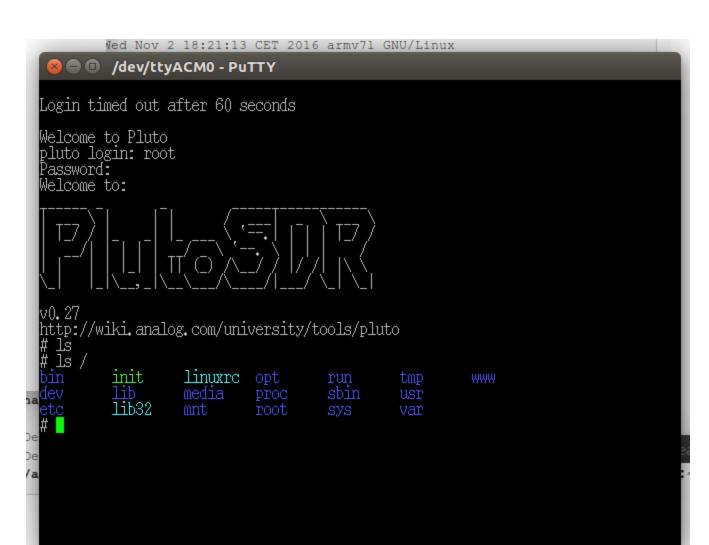
dev/tty	/dev/tty21	/dev/tty35	/dev/tty49	/dev/tty62	/dev/ttyS16	/dev/ttyS3
lev/tty0	/dev/tty22	/dev/tty36	/dev/tty5	/dev/tty63	/dev/ttyS17	/dev/ttyS30
lev/tty1	/dev/tty23	/dev/tty37	/dev/tty50	/dev/tty7	/dev/ttyS18	/dev/ttyS31
lev/tty10	/dev/tty24	/dev/tty38	/dev/tty51	/dev/tty8	/dev/ttyS19	/dev/ttyS4
lev/tty11	/dev/tty25	/dev/tty39	/dev/tty52	/dev/tty9	/dev/ttyS2	/dev/ttyS5
lev/tty12	/dev/tty26	/dev/tty4	/dev/tty53	/dev/ttyACM0	/dev/ttyS20	/dev/ttyS6
lev/tty13	/dev/tty27	/dev/tty40	/dev/tty54	/dev/ttyprintk	/dev/ttyS21	/dev/ttyS7
lev/tty14	/dev/tty28	/dev/tty41	/dev/tty55	/dev/ttyS0	/dev/ttyS22	/dev/ttyS8
lev/tty15	/dev/tty29	/dev/tty42	/dev/tty56	/dev/ttyS1	/dev/ttyS23	/dev/ttyS9
lev/tty16	/dev/tty3	/dev/tty43	/dev/tty57	/dev/ttyS10	/dev/ttyS24	
lev/tty17	/dev/tty30	/dev/tty44	/dev/tty58	/dev/ttyS11	/dev/ttyS25	
lev/tty18	/dev/tty31	/dev/tty45	/dev/tty59	/dev/ttyS12	/dev/ttyS26	
lev/tty19	/dev/tty32	/dev/tty46	/dev/tty6	/dev/ttyS13	/dev/ttyS27	
		1-1	14-11/4-160	Idou Ittuc14	14-11/4-1520	
	/dev/tty33	/dev/tty47	/dev/tty60	/dev/ttyS14	/dev/ttyS28	
dev/tty2 dev/tty20	/dev/tty34	/dev/tty48	/dev/tty61	/dev/ttyS14 /dev/ttyS15	/dev/ttyS28 /dev/ttyS29	
lev/tty20		/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
ev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
ev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			
lev/tty20	/dev/tty34	/dev/tty48	/dev/tty61			

of followed by : to see office options.









```
🙆 🖃 🗉 Terminal File Edit View Search Terminal Help
sdr@sdr-Samsung-DeskTop-System:~/sw$ mount | grep -i pluto
/dev/sdd1 on /media/sdr/PlutoSDR type vfat (rw,nosuid,nodev,relatime,uid=1000,gi
d=1000, fmask=0022, dmask=0022, codepage=437, iocharset=iso8859-1, shortname=mixed, sh
owexec,utf8,flush,errors=remount-ro,uhelper=udisks2)
sdr@sdr-Samsung-DeskTop-System:~/sw$ ls -l /media/sdr/PlutoSDR/
total 16
-rw-r--r-- 1 sdr sdr 420 1월
                                 1 1980 config.txt
drwxr-xr-x 2 sdr sdr 2048 1월
                                 1 1980 img
-rw-r--r-- 1 sdr sdr 10687 1월 1 1980 info.html
sdr@sdr-Samsung-DeskTop-System:~/sw$ firefox /media/sdr/PlutoSDR/info.html
```

English | Deutsch | Français | Español | Português | 简体中文 | 日本語 | Русский





Firmware

Version

Help and Support

About Analog Devices

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.

Getting Started Back to top

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.

```
sdr@sdr-Samsung-DeskTop-System:~/sw$ /sbin/ifconfig
         Link encap: Ethernet HWaddr 02:42:ce:88:4b:8b
docker0
         inet addr:172.17.0.1 Bcast:172.17.255.255 Mask:255.255.0.0
         UP BROADCAST MULTICAST MTU:1500 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:0
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
enx00e0228fa381 Link encap:Ethernet HWaddr 00:e0:22:8f:a3:81
         inet addr:192.168.2.10 Bcast:192.168.2.255 Mask:255.255.255.0
         inet6 addr: fe80::14c7:f848:4424:940a/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:45 errors:0 dropped:0 overruns:0 frame:0
         TX packets:117 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:5640 (5.6 KB) TX bytes:21805 (21.8 KB)
         Link encap:Local Loopback
lo
         inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
         RX packets:2558 errors:0 dropped:0 overruns:0 frame:0
         TX packets:2558 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:239412 (239.4 KB) TX bytes:239412 (239.4 KB)
         Link encap:Ethernet HWaddr 00:50:56:c0:00:01
vmnet1
         inet addr:192.168.67.1 Bcast:192.168.67.255 Mask:255.255.25.0
         inet6 addr: fe80::250:56ff:fec0:1/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:183 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
vmnet8
         Link encap:Ethernet HWaddr 00:50:56:c0:00:08
         inet addr:172.16.122.1 Bcast:172.16.122.255 Mask:255.255.255.0
         inet6 addr: fe80::250:56ff:fec0:8/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:0 errors:0 dropped:0 overruns:0 frame:0
         TX packets:180 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)
```

```
sdr@sdr-Samsung-DeskTop-System:~/sw$ ip addr show
1: lo: <LOOPBACK,UP,LOWER UP> mtu 65536 qdisc noqueue state UNKNOWN group default glen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid lft forever preferred lft forever
2: wlp4s0: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc noqueue state UP group default
glen 1000
    link/ether ac:b5:7d:94:3e:af brd ff:ff:ff:ff:ff:ff
    inet 192.168.219.102/24 brd 192.168.219.255 scope global dynamic wlp4s0
       valid lft 82236sec preferred lft 82236sec
    inet6 fe80::ad70:90c5:e7cb:4f71/64 scope link
       valid_lft forever preferred_lft forever
3: vmnet1: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc pfifo fast state UNKNOWN group
default glen 1000
    link/ether 00:50:56:c0:00:01 brd ff:ff:ff:ff:ff
    inet 192.168.67.1/24 brd 192.168.67.255 scope global vmnet1
       valid lft forever preferred_lft forever
    inet6 fe80::250:56ff:fec0:1/64 scope link
       valid lft forever preferred lft forever
4: vmnet8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UNKNOWN group
default glen 1000
    link/ether 00:50:56:c0:00:08 brd ff:ff:ff:ff:ff
    inet 172.16.122.1/24 brd 172.16.122.255 scope global vmnet8
       valid lft forever preferred lft forever
    inet6 fe80::250:56ff:fec0:8/64 scope link
       valid lft forever preferred lft forever
5: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group def
ault
    link/ether 02:42:ce:88:4b:8b brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
       valid lft forever preferred lft forever
6: enx00e0228fa381: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo fast state UNKNO
WN group default glen 1000
    link/ether 00:e0:22:8f:a3:81 brd ff:ff:ff:ff:ff:ff
    inet 192.168.2.10/24 brd 192.168.2.255 scope global dynamic enx00e0228fa381
       valid lft 861410sec preferred lft 861410sec
    inet6 fe80::14c7:f848:4424:940a/64 scope link
       valid lft forever preferred lft forever
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

```
sdr@sdr-Samsung-DeskTop-System:~/sw$ wget https://raw.githubusercontent.com/analogdevicesi
nc/plutosdr scripts/master/ssh config -0 ~/.ssh/config
--2019-01-26 21:40:55-- https://raw.githubusercontent.com/analogdevicesinc/plutosdr scrip
ts/master/ssh config
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 151.101.228.133
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|151.101.228.133|:443...
. connected.
HTTP request sent, awaiting response... 200 OK
Length: 366 [text/plain]
Saving to: '/home/sdr/.ssh/config'
366 --.-KB/s
                                                                          in Os
2019-01-26 21:40:56 (37.9 MB/s) - '/home/sdr/.ssh/config' saved [366/366]
sdr@sdr-Samsung-DeskTop-System:~/sw$ ssh plutosdr
Warning: Permanently added 'plutosdr' (ECDSA) to the list of known hosts.
root@plutosdr's password:
Welcome to:
v0.27
http://wiki.analog.com/university/tools/pluto
# uname -a
Linux pluto 4.9.0-10221-qf457f60 #213 SMP PREEMPT Tue Jan 30 13:53:36 CET 2018 armv7l GNU/
Linux
```

```
# exit
Connection to 192.168.2.1 closed.
sdr@sdr-Samsung-DeskTop-System:~/sw$ sshpass -panalog ssh plutosdr
The program 'sshpass' is currently not installed. You can install it by typing:
sudo apt install sshpass
sdr@sdr-Samsung-DeskTop-System:~/sw$ sudo apt-get install sshpass
[sudo] password for sdr:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.15.0-36 linux-headers-4.15.0-36-generic linux-headers-4.15.0-39
  linux-headers-4.15.0-39-generic linux-image-4.15.0-36-generic
 linux-image-4.15.0-39-generic linux-modules-4.15.0-36-generic
 linux-modules-4.15.0-39-generic linux-modules-extra-4.15.0-39-generic
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  sshpass
O upgraded, 1 newly installed, O to remove and 310 not upgraded.
Need to get 10.5 kB of archives.
After this operation, 56.3 kB of additional disk space will be used.
Get:1 http://kaist.archive.ubuntu.com/ubuntu xenial/universe amd64 sshpass amd64 1.05-1 [1
0.5 kBl
Fetched 10.5 kB in 1s (9,180 B/s)
Selecting previously unselected package sshpass.
(Reading database ... 401915 files and directories currently installed.)
Preparing to unpack .../sshpass 1.05-1 amd64.deb ...
Unpacking sshpass (1.05-1) ...
Processing triggers for man-db (2.7.5-1) ...
Setting up sshpass (1.05-1) ...
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

```
sdr@sdr-Samsung-DeskTop-System:~/sw$ sshpass -panalog ssh plutosdr
Warning: Permanently added 'plutosdr' (ECDSA) to the list of known hosts.
Welcome to:
v0.27
http://wiki.analog.com/university/tools/pluto
# exit
Connection to 192.168.2.1 closed.
sdr@sdr-Samsung-DeskTop-System:~/sw$ iio info -n 192.168.2.1 | grep device
IIO context has 5 devices:
        iio:device3: cf-ad9361-dds-core-lpc (buffer capable)
        iio:device1: ad9361-phy
                18 device-specific attributes found:
                                attr 0: dcxo tune coarse ERROR: No such device (-19)
                                attr 6: dcxo tune fine ERROR: No such device (-19)
        iio:device4: cf-ad9361-lpc (buffer capable)
                                attr 3: samples pps ERROR: No such device (-19)
                                attr 3: samples pps ERROR: No such device (-19)
        iio:device2: xadc
                1 device-specific attributes found:
        iio:device0: adm1177
sdr@sdr-Samsung-DeskTop-System:~/sw$ sudo apt-get install libiio-utils
```

```
sdr@sdr-Samsung-DeskTop-System:~/sw$ sudo apt-get install libiio-utils
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.15.0-36 linux-headers-4.15.0-36-generic linux-headers-4.15.0-39
  linux-headers-4.15.0-39-generic linux-image-4.15.0-36-generic
  linux-image-4.15.0-39-generic linux-modules-4.15.0-36-generic
  linux-modules-4.15.0-39-generic linux-modules-extra-4.15.0-39-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  libiio0
The following NEW packages will be installed:
  libiio-utils libiio0
O upgraded, 2 newly installed, O to remove and 310 not upgraded.
Need to get 44.7 kB of archives.
After this operation, 170 kB of additional disk space will be used.
Do vou want to continue? [Y/n] v
Get:1 http://kaist.archive.ubuntu.com/ubuntu xenial/universe amd64 libiio0 amd64 0.6.40-1
[32.5 kB]
Get:2 http://kaist.archive.ubuntu.com/ubuntu xenial/universe amd64 libiio-utils amd64 0.6.
40-1 [12.2 kB]
Fetched 44.7 kB in 2s (19.4 kB/s)
Selecting previously unselected package libiio0:amd64.
(Reading database ... 401920 files and directories currently installed.)
Preparing to unpack .../libiio0 0.6.40-1 amd64.deb ...
Unpacking libiio0:amd64 (0.6.40-1) ...
Selecting previously unselected package libiio-utils.
Preparing to unpack .../libiio-utils 0.6.40-1 amd64.deb ...
Unpacking libiio-utils (0.6.40-1) ...
Processing triggers for libc-bin (2.23-0ubuntu10) ...
Setting up libiio0:amd64 (0.6.40-1) ...
Setting up libiio-utils (0.6.40-1) ...
Processing triggers for libc-bin (2.23-Oubuntu10) ...
sdr@sdr-Samsung-DeskTop-System:~/sw$
```

```
sdr@sdr-Samsung-DeskTop-System:~/sw$ iio_info -n 192.168.2.1 | grep device
Unable to read attribute fastlock recall
Unable to read attribute fastlock recall
IIO context has 5 devices:
        iio:device3: cf-ad9361-dds-core-lpc
        iio:device1: ad9361-phy
Unable to read attribute: dcxo tune coarse
Unable to read attribute: gain table config
Unable to read attribute: dcxo tune fine
Unable to read attribute: multichip sync
Unable to read attribute samples pps
Unable to read attribute samples pps
                18 device-specific attributes found:
        iio:device4: cf-ad9361-lpc
        iio:device2: xadc
                1 device-specific attributes found:
        iio:device0: adm1177
sdr@sdr-Samsung-DeskTop-System:~/sw$ iio readdev -n 192.168.2.1 -s 64 cf-ad9361-lpc | hexd
ump -x
0000000
                   ffee
                            ffee
                                    fff7
                                            ffdd
                                                     fff4
                                                             fff6
                                                                     fff6
           0021
                   fff7
                                            ffd8
                                                             ffdf
0000010
           ffe0
                            ffc3
                                    0013
                                                     001b
                                                                     0016
                   002f
                            0027
                                    001f
                                            ffe5
                                                             ffe0
                                                                     ffe2
0000020
           001c
                                                     0041
0000030
                   ff93
                            ffde
                                    ffdf
                                            ffc9
                                                     ffe6
                                                             0028
                                                                     ffd2
           0006
           fff8
                   ffe6
                                    ffda
                                                                     ffe3
0000040
                            ffde
                                            002c
                                                     ffe4
                                                             0021
                                    fffb
                                                     fff7
                                                                     ffed
0000050
           0019
                    0001
                            0018
                                            004f
                                                             0038
           000b
                   ffa8
                                    ffaa
                                            ffec
                                                     ffd3
                                                             ffce
                                                                     ffeb
0000060
                            0017
0000070
           ffed
                   002f
                            001d
                                    0018
                                            002f
                                                     ffdb
                                                                     0001
                                                             0046
0000080
           0009
                   0055
                            000c
                                    006d
                                            008b
                                                     0044
                                                             006d
                                                                     0010
                                                             ffeb
0000090
           006d
                   0003
                            003b
                                            0035
                                                                     ffdf
                                    0012
                                                     0023
00000a0
           ffd0
                   ffe7
                            fffb
                                    002f
                                            0018
                                                     ffff
                                                             002f
                                                                     ffda
           fffe
                                            ffe9
00000ь0
                   0000
                            ffb8
                                    0003
                                                     0004
                                                             0049
                                                                     0015
0000000
                   000b
                            ffe1
                                    001e
                                            fffd
                                                     ffd6
                                                             ffde
                                                                     ffbc
           001c
00000d0
          ffdf
                            fff7
                                    fff6
                                            0012
                                                     000e
                                                             ffe3
                                                                     ffe9
                   0014
           ffc0
                            ffd8
                                                     ffff
                                                             fff6
                   002c
                                            ffe4
                                                                     0053
00000e0
                                    0030
                                            ffc4
                                                     ffe2
                                                             ffb7
                                                                     ffd2
00000f0
           0003
                   004f
                            001a
                                    0007
0000100
sdr@sdr-Samsung-DeskTop-System:~/sw$
```