

Enabling an Intelligent Planet

Data Create	2015/03/26	Release Note	Internal External
Category	FAQ	Product	IAG
		Group	
Function	Communication	Related OS	Linux
Related			
Product	UNU-2174A		

[Abstract]

How to Install Com Driver in Linux Terminal

[Solution]

- 1. Ctrl + Alt + F2
 - A. To change window to Terminal and type the following instrument.
- 2. <u>uname -r</u>
 - A. To print the current Linux kernel information.
 - B. In this case, the kernel version is "2.6".

[root@localhost ~]# uname	-r
2.6.32-431.el6.x86_64	
[root@localhost ~]# _	

Figure: The version of Linux.

- 3. Go to Advantech website to download UNO-2174A Linux driver and extract it. (Linux driver for Adv950)
- 4. Copy and paste the corresponding file to the USB disk. Remember that the format of USB disk should be FAT32.
 - A. In this case, I only copy 2.6 file to my USB disk.

Stage 2: Mount the file

- 1. <u>fdisk -l</u>
 - A. To list disk partition, you can find USB disk path.
 - B. In this case, the USB disk path is /dev/sda1.





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Figure: As you can see, my USB disk is 8GB, and the path is /dev/sda1.

- 2. mkdir /tmp/driver
 - A. To create a new file which called "driver" under "tmp" path.
- 3. mount /dev/sda1 /tmp/driver
 - A. To mount the USB disk on this path.

Stage 3: Go to the file and make installation

- 1. <u>cd /tmp</u>
- 2. cd driver/
- 3. <u>cd 2.6/</u>
 - A. Go to the driver material file.
- 4. <u>ls</u>
 - A. To list all files within this level.

[root@localhost /]# cd / [root@localhost /]# ls
bin cgroup etc lib lost+found misc net proc sbin srv tmp var
[root@localhost /]# cd 2.6/
-bash: cd: 2.6/: No such file or directory
[root@localhost /]# cd tmp/
[root@localhost tmp]# ls
apple keyring-kEVjØB orbit-gdm pulse-8TttWQKGbph8 usb virt
driver keyring-ou4wW orbit-Luke pulse-WSB3i1sdZe5n virtual-Luke.2c2GNS virt
[root@localhost tmp]# cd driver/
[root@localhost driver]# ls
2.6
[root@localhost driver]# cd 2.6/
Iroot@localhost 2.61# 1s
8250.c 8250.h 8250_pci.c Makefile serial_core.c
Lroot⊌localhost ∠.bJ# _

Figure: You can see there is a "Makerfile".

- 5. <u>make</u>
 - A. Compile the file.
- 6. make install
 - A. Installation.
- 7. Ismod | grep adv
 - A. Search module name which relates to "adv".
- 8. Is /dev/ttyAP*
 - A. You can find ttyAP0 and ttyAP1, which is the name of COM A and COM B.

Stage 4: Com port test

- 1. yum install minicom
 - A. Install application program "minicom", which is one of com port test tools.
 - B. Yum instrument means apt-get in other version of Linux.
- 2. minicom -s
 - A. Create a new connection.

Revision: 1.0



B. Serial port setup -> Device name use com port ttyAP0, which stands for COM A.

- 3. Select COM mode
 - A. In this case, COM A and B will auto detection RS422/485 mode.
- 4. Connect the corresponding wire and transmit data.
 - A. If the data shown, it stands for the com port have passed the test.