AM57x
UART Download SOP
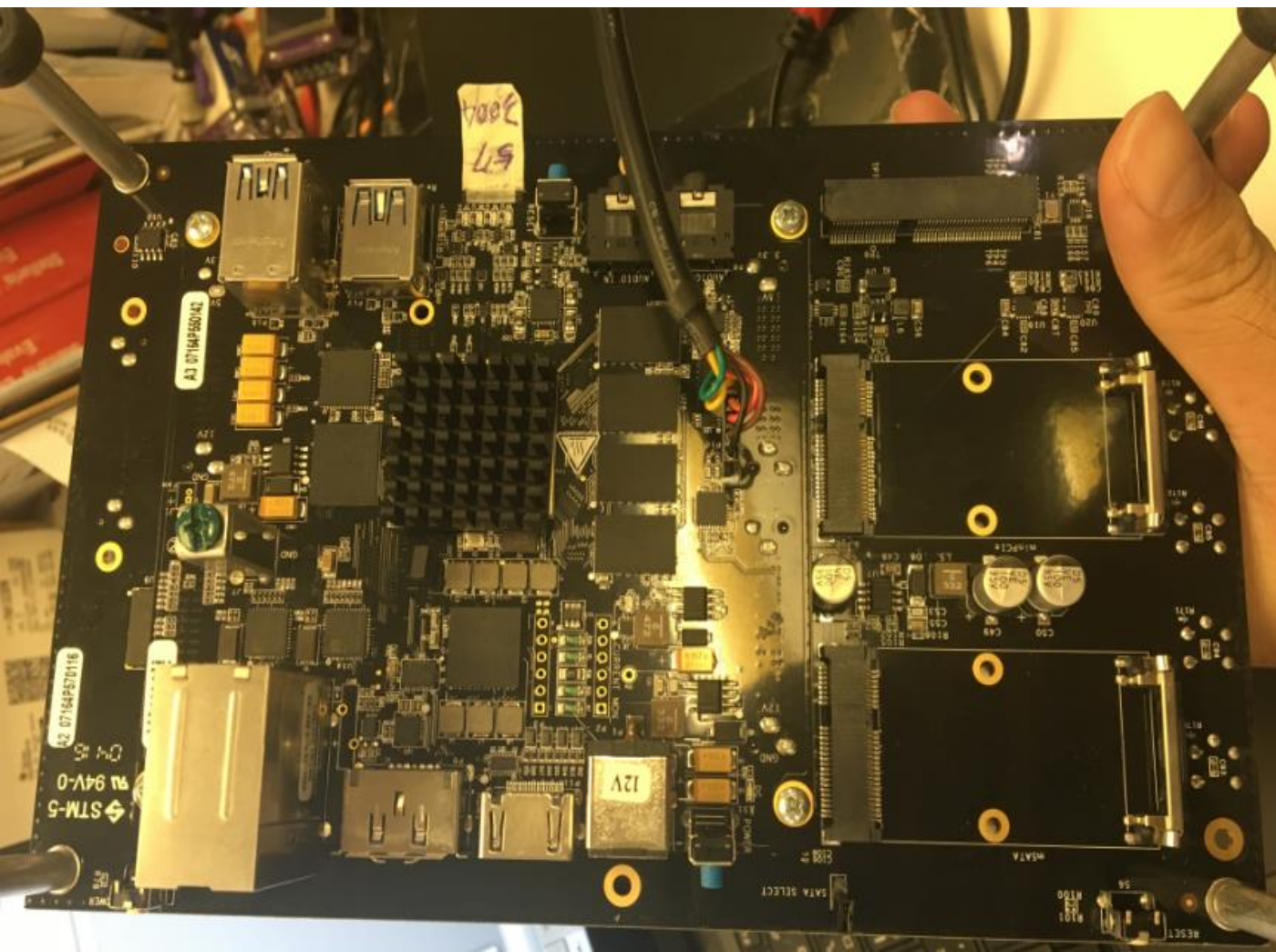
TIDesigns

TI Rio 2016/11/1

TEXAS INSTRUMENTS

Outline.

- 1. HW/SW required stuffs.
- 2. HW setting.
- 3. SW setting.
- 4. Demo SOP

TEXAS INSTRUMENTS

This is the AM57 GP EVM

TEXAS INSTRUMENTS

Check the GP EVM version is beyond A2

TEXAS INSTRUMENTS

Connect the J3/J4/J6 to [1:2]

TEXAS INSTRUMENTS

Connect the J5

TEXAS INSTRUMENTS
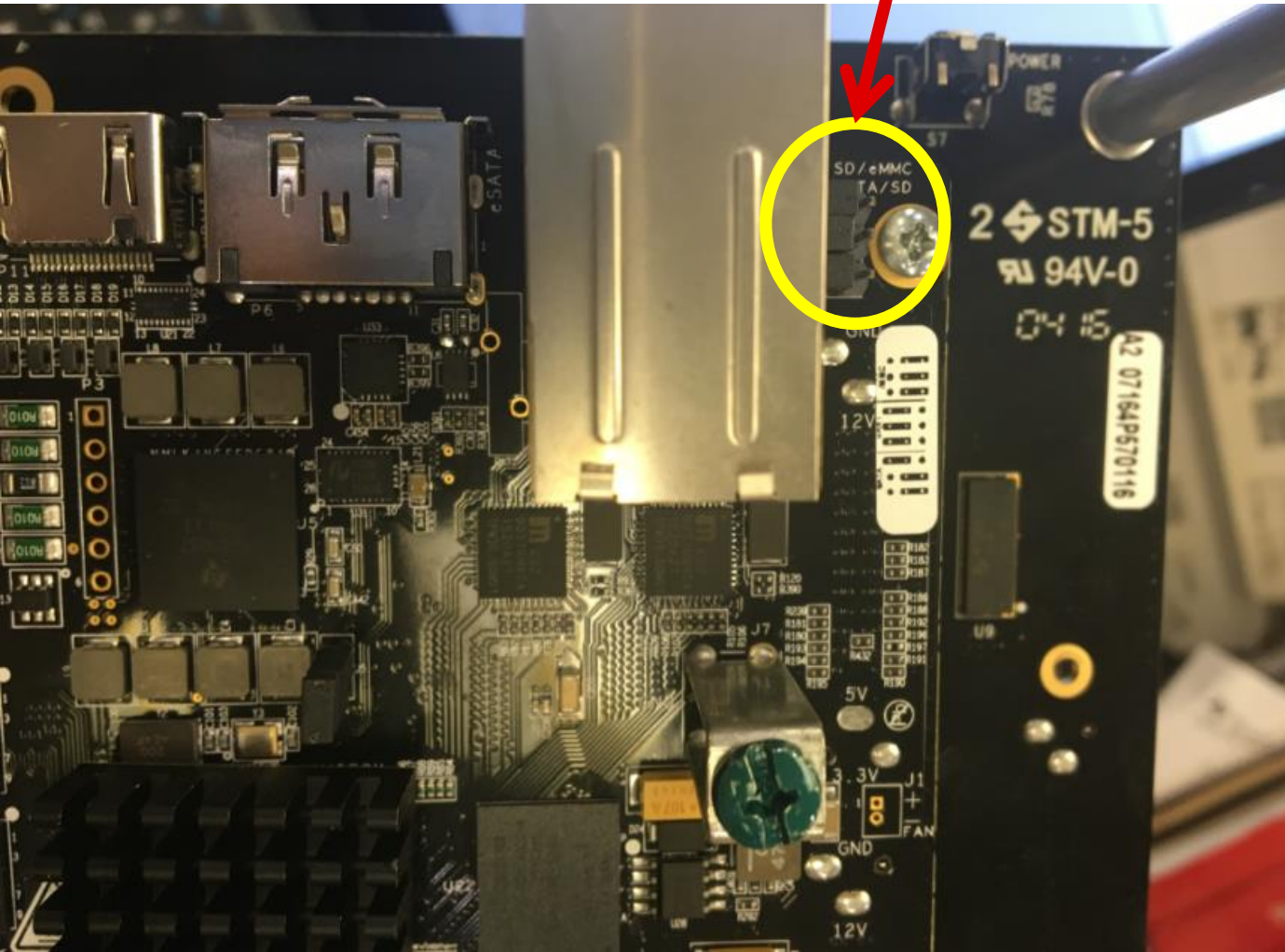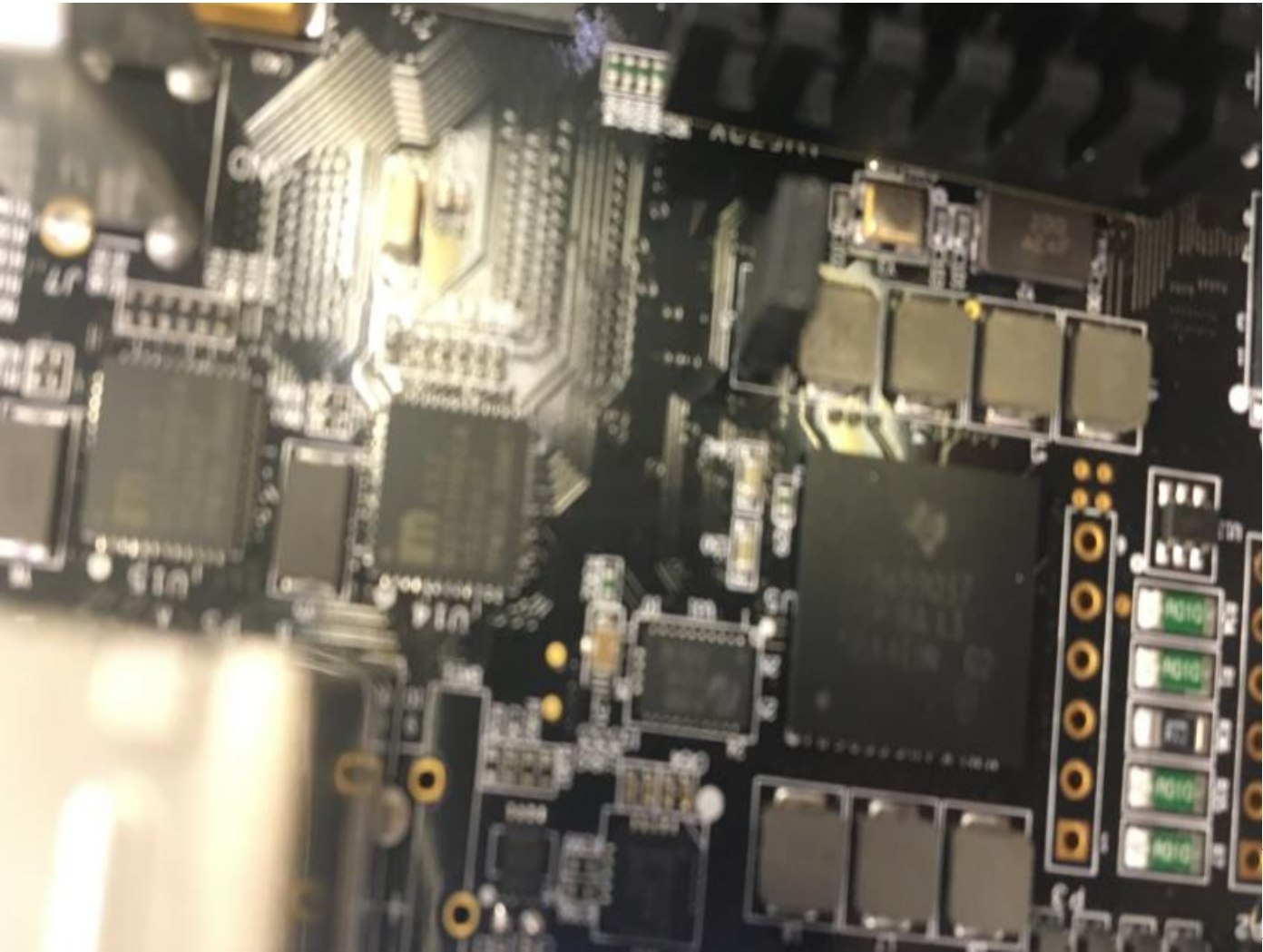
HW Required Stuffs.

- Connect the J3/J4/J6, set them as [**1:2**:3] (connect the 1:2 for each)
- Connect the J5
- Plug the UART to PC/NB

SW Required stuffs

- Windows Perl download:
  - Win7.
  - ActivePerl (x86)
  - TeraTerm.
  - serial-boot.pl   ← Script for UART download required for AM57.

- uBuntu Perl download.
  - uBuntu 12.04
  - Perl for uBuntu
  - SerialPort package
  - serial-boot.pl   ← Script for UART download required for AM57.

Texas Instruments

Window Perl
to make the UART download procedure

TEXAS INSTRUMENTS

SW Required Stuffs

- Activeperl
    - With 64bit OS windown7, we choose the AtivePerl (x86).
    - Due to the ActivePerl (x64) is not working on win7.
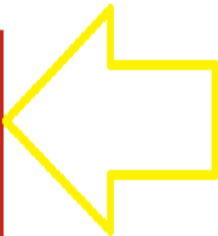   - ➔http://www.activestate.com/activeperl/downloads

DOWNLOAD PERL BINARIES: ACTIVEPERL COMMUNITY EDITION

ActivePerl is the leading commercial-grade distribution of the open source Perl scripting language. Download ActivePerl Community Edition free binaries for your development projects and internal deployments.

⊕ **Download ActivePerl 5.24.0 for Windows (x86)**

DO YOU NEED AN OLDER VERSION OF ACTIVEPERL OR WANT TO USE IT ON PRODUCTION OR ON BIG IRON SERVERS?

⊕ **Download ActivePerl 5.24.0 for Windows (64-bit, x64)**

If you are using ActivePerl for production, redistribution, on terminal servers, for thin client for app deployment (i.e. on MS Terminal Services, Citrix XenApp or File Servers), or for use on HP-

Start to follow the steps to operate the perl

```
C:\Perl>
C:\Perl>ppm
```

Trigger
Perl Package Manager

Perl Package Manager

File Edit View Action Help

serialport

Package Name	Area	Installed	Available	Abstract
Test-Device-Seri...		0.05		Serial port mock object to be used for testing
Win32-SerialPort	site	0.22	0.22	User interface to Win32 Serial API calls

PPM will bring this screen.
Install the "serialport"

Don't forget to click
"install"

Status Details

Test-Device-SerialPort
  Serial port mock object to be used for testing
  Version: 0.05
  Released: 2010-06-22
  Author: Cosimo Streppone <cosimo@cpan.org>
  CPAN: http://search.cpan.org/dist/Test-Device-SerialPort-0.05/

Serial port is ready for used
by perl.

MENTS

Config the right comport used by perl

The perl UART download complete log…

TEXAS INSTRUMENTS
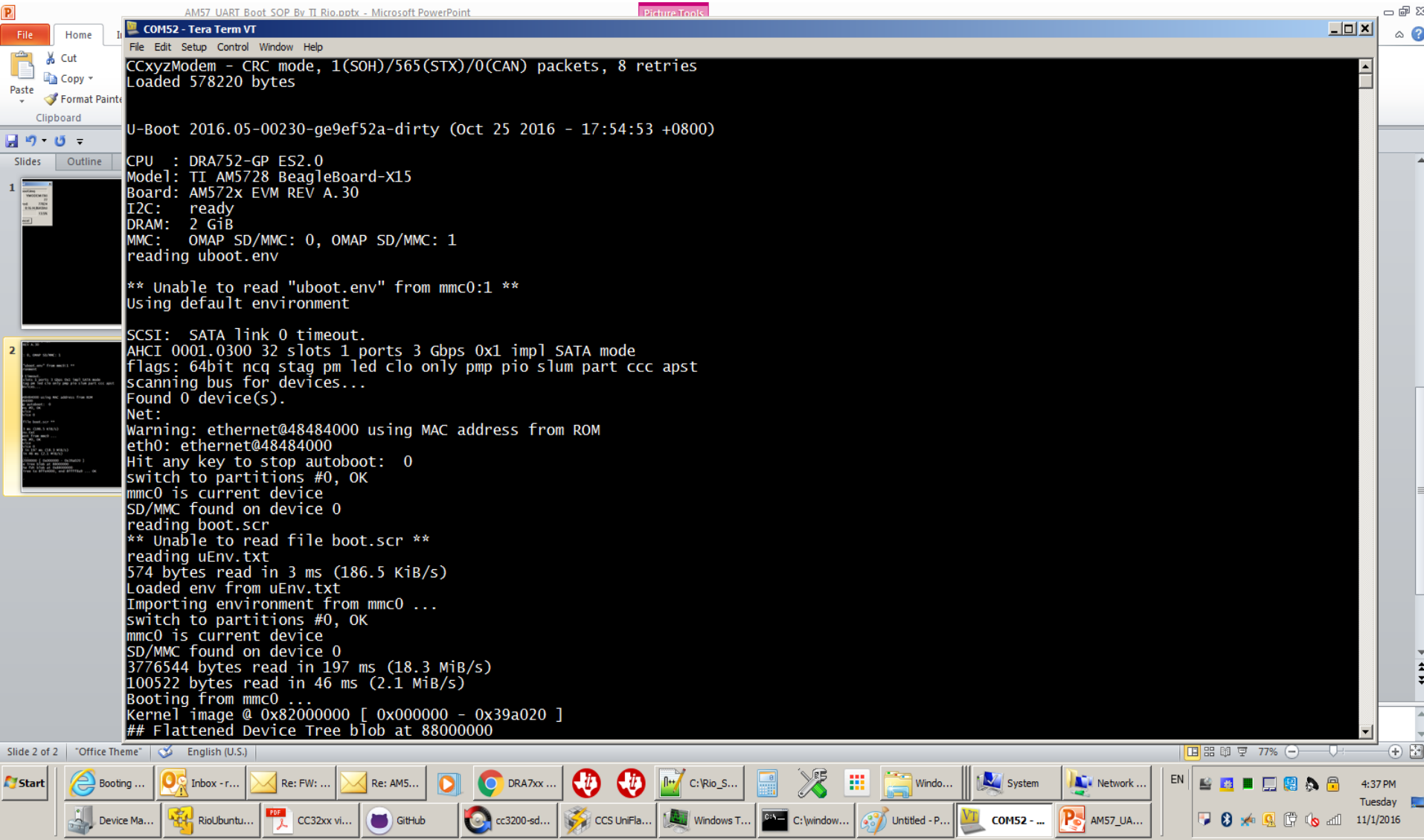
Then, after seeing "CCCC",
trigger "ymodem" to send the "u-boot.im)
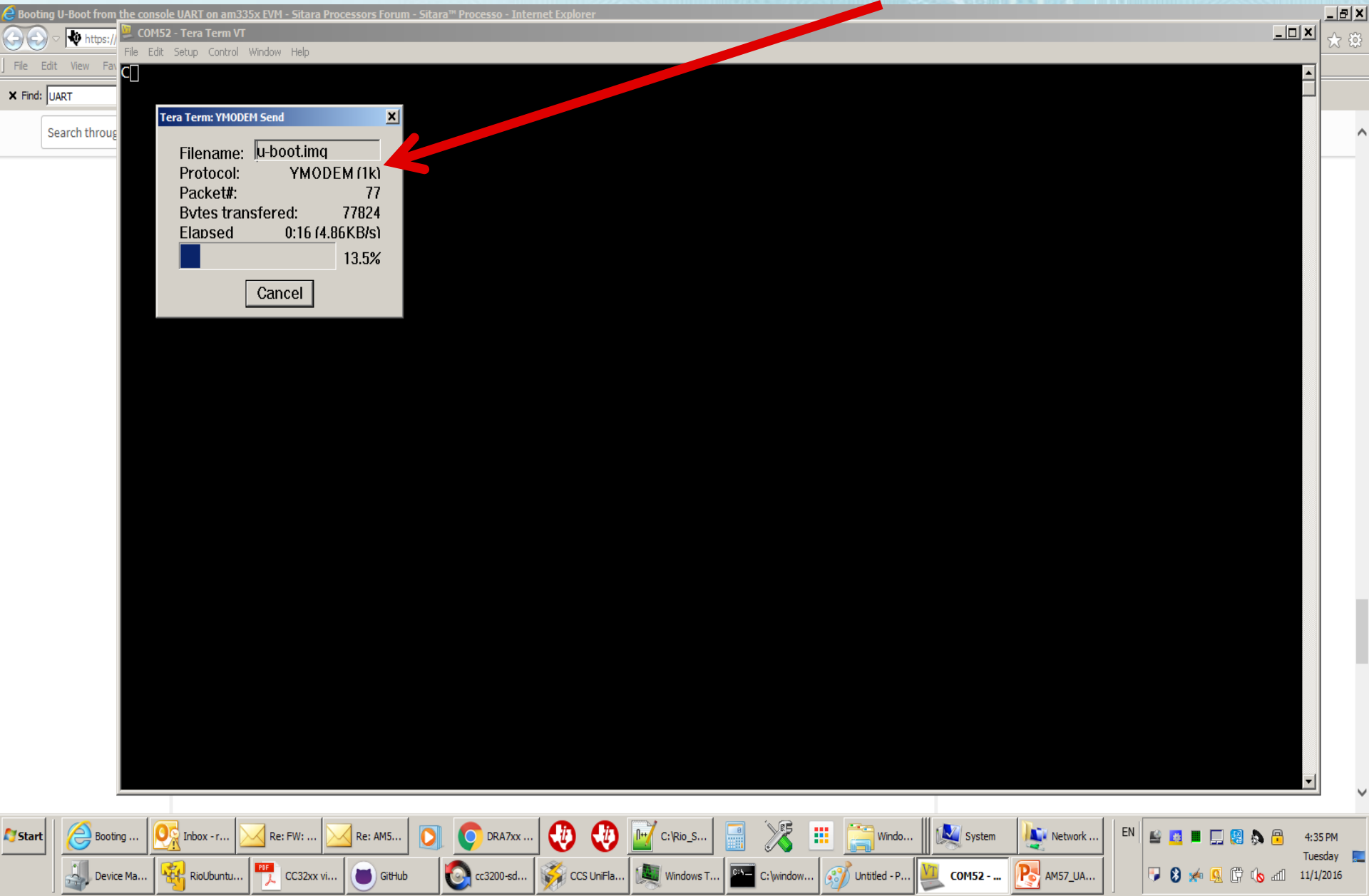
Once "u-boot.img" is download complete, the kernel will bring up natually.

Success !!

uBuntu Perl
to make the UART download procedure

TEXAS INSTRUMENTS

Find the right UART-USB comport that AM57 used.
Input this command:

./serial-boot.pl -p /dev/ttyUSB0 -s u-boot-spl.bin -d1 -t40

It will show download complete for the **"u-boot-spl.bin"**!!

Note: The screen might be ilde, please press "enter" to let it go on.

Then, continue to download the u-boot.img by inputting this command:

sx -kb --ymodem u-boot.img < /dev/ttyUSB0 > /dev/ttyUSB0

Then, it will runs complete.
Just wait the AM57 boot screen !! Success !

TEXAS INSTRUMENTS