Preparation
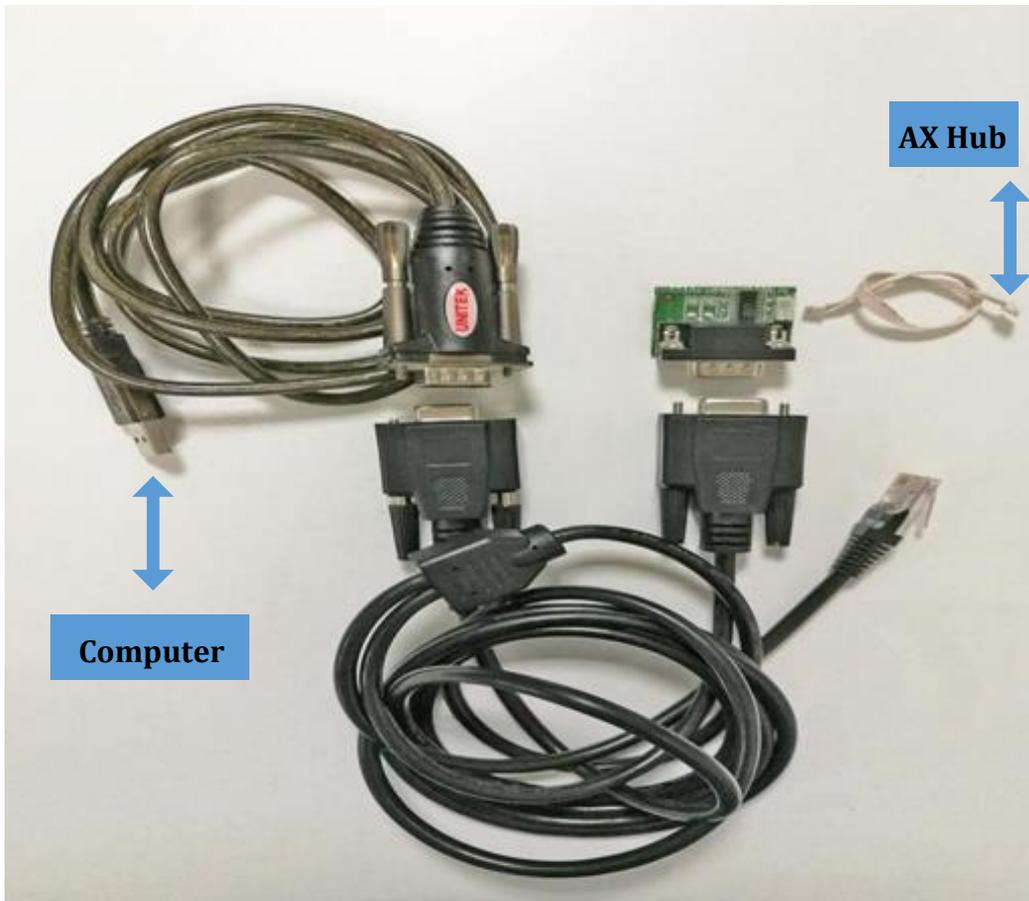
1. AX PRO Wireless Control Panel
2. RS232 serial port cable and Ethernet cable
3. Software SecureCRT and TFTP（/20 Alarm/Hikvision/11 Installation&How to/Tool/）

How to Upgrade AX PRO Wireless Control Panel by RS232 Cable

When AX PRO Wireless Control Panel can't be searched in SADP, can't ping IP successfully or the device is crashed. In this situation, AX PRO Wireless Control Panel need to be upgraded by RS232 cable.
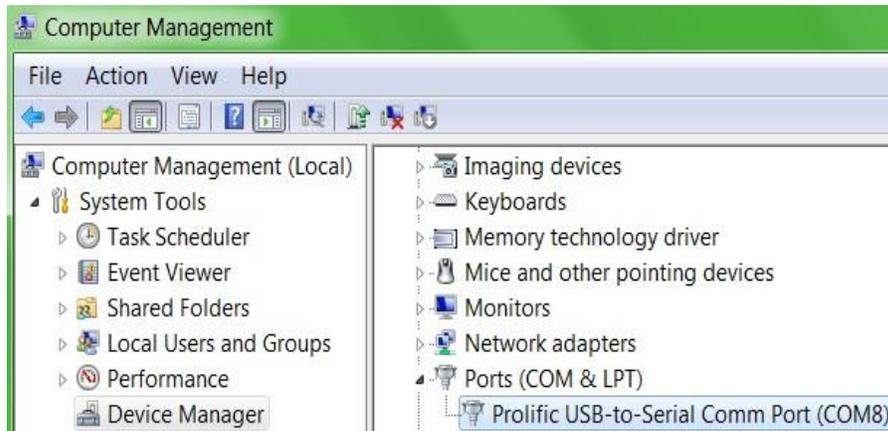
Important Note: Computer must close the firewall.

1. **Connect laptop USB port with Hub by RS232 cable.**

2. **Check the COM port in computer's device management.**

3. Open SecureCRT and configure below parameters.

4. Hold down U when the Hub power on.

```
Boot 2018.1 (May 26 2018 - 09:19:57)

Check Flash Memory Controller v100 ... Found
SPI Nor(cs 0) ID: 0xef 0x40 0x18
spi_w25q256fv_solve_flash_lock_qe_enable(268): Error: Disable Quad failed! reg:0x2
Block:64KB Chip:16MB Name:"W25Q128(B/F)V"
SPI Nor total size: 16MB
*** Warning - bad CRC, using default environment

Hit any key to stop autoboot:  0

This program will upgrade software.
*****************************************************
*   ATTENTION!! PLEASE READ THIS NOTICE CAREFULLY!   *
*   Don't reset machine,or anything that interrupt it. *
*   The upgrade process must finish in 10 minutes!   *
*   If this program fails,machine might be unusable,  *
*   and you will need to reflash again.              *
*   If you find this too risky,power off machine now. *
*****************************************************

Now press [u/U] key to upgrade software: b
```

5. Enter b.

```
Now press [u/U] key to upgrade software:

This program will upgrade software.
*****************************************************
*   ATTENTION!! PLEASE READ THIS NOTICE CAREFULLY!   *
*   Don't reset machine,or anything that interrupt it. *
*   The upgrade process must finish in 10 minutes!   *
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*****************************************************

Now press [u/U] key to upgrade software: b
```

6. Then enter debug, enter debug mode, you can get the debug password from the local technical engineer.

7. Then enter pri , check device start IP network environment.

8. **Change device IP network environment during upgrade time.(address set depend on your network environment)**

    setenv serverip 10.9.96.44;

    setenv ipaddr 10.9.96.160;

    setenv gatewayip 10.9.96.254

    -- serverip   :PC IP address

    -- ipaddr   :Device IP address

    -- gatewayip :Gateway address

```
boot # setenv serverip 10.9.96.44;
boot # setenv ipaddr 10.9.96.160;
boot # setenv gatewayip 10.9.96.254
```

9. **Enter pri again, check these IP address have been changed.**

```
boot # pri
bootcmd=tftp 0x80400000 $(bootfile);bootm 0x80400000;
default=cramfsload 0x80400000 uImage; cramfsload 0x81000000 ramdisk.gz;
sec=tftp 0x80400000 uImage_sec;tftp 0x81000000 ramdisk.gz;bootm 0x80400000 0x81000000;
bootdelay=1
baudrate=115200
netmask=255.255.255.0
bootfile="uImage"
phyaddr0=3
mdio_intf=rmii
bootargs=mem=112M console=ttyS0,115200
ethaddr=58:03:fb:b6:b6:67
stdin=serial
stdout=serial
stderr=serial
verify=n
ver=U-Boot 2010.06 (May 26 2018 - 09:19:57)
serverip=10.9.96.44
ipaddr=10.9.96.160
gatewayip=10.9.96.254

Environment size: 527/4092 bytes
```
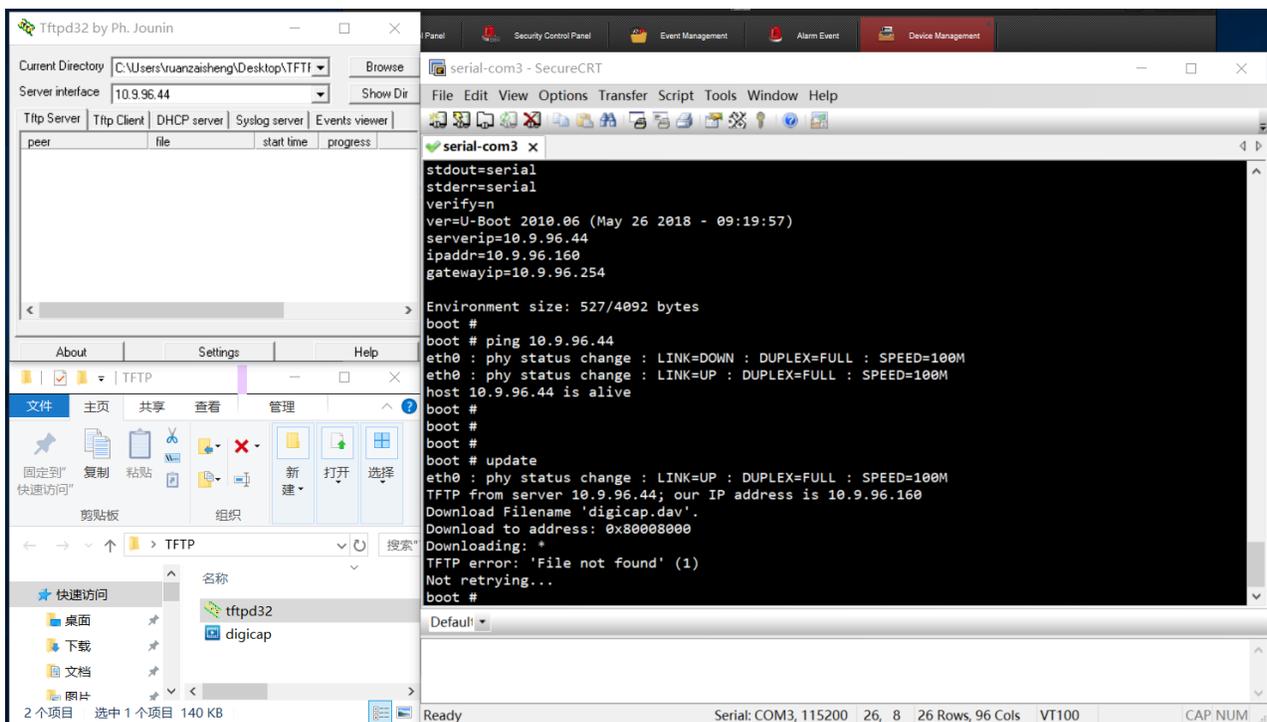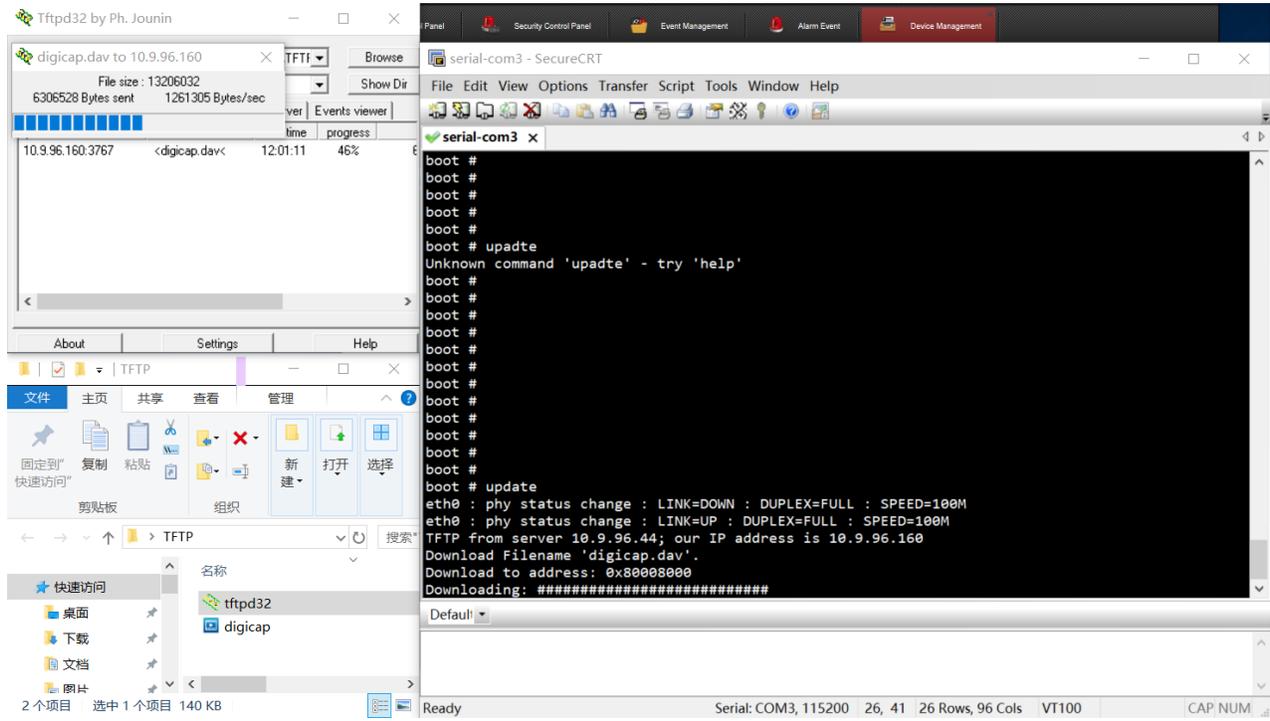
10. **Enter ping 10.9.96.44 , check device and PC is connected.**

    Host 10.9.98.44 is alive means connection is ok.

11. Copy firmware to the TFTP catalog, then open tftp

12. Enter update.

13. Upgrade successful.

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