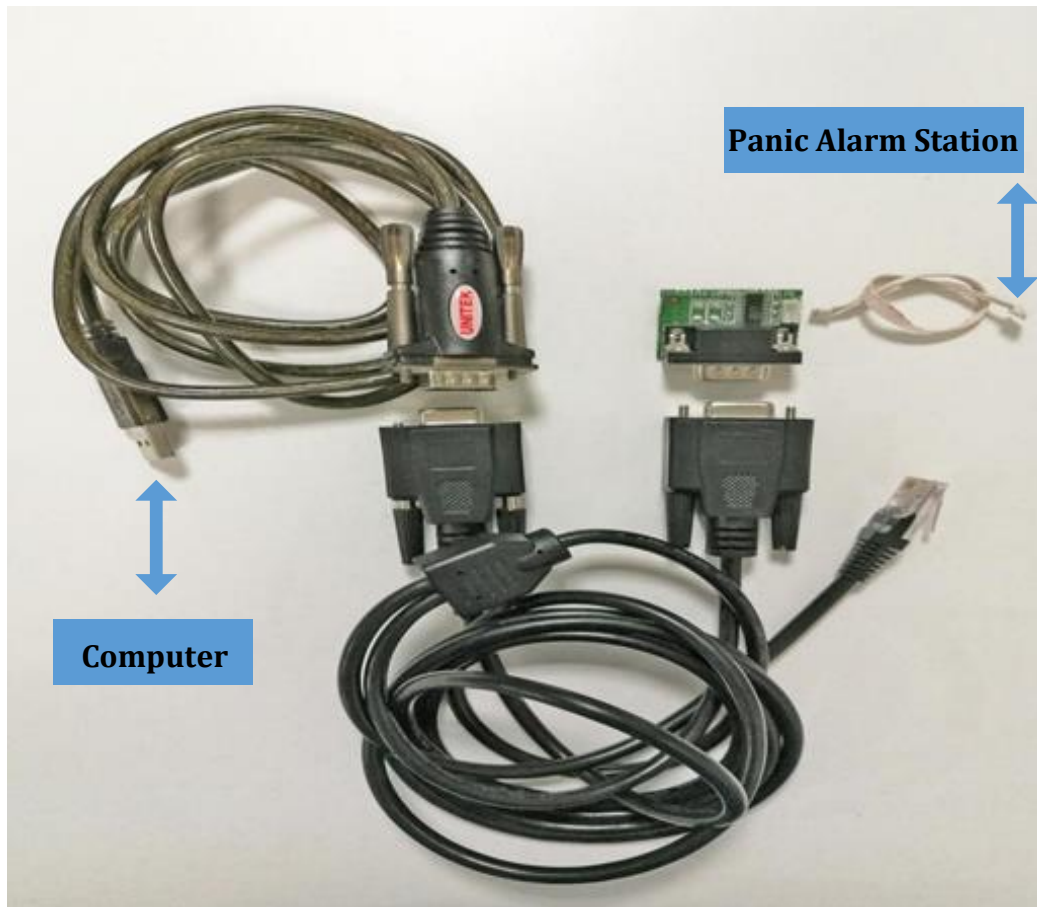## Preparation

1. DS-PEA1-21 Panic Alarm Station
2. RS232 serial port cable
3. Software SecureCRT and TFTP

How to Upgrade Emergency alarm station by RS232 Cable

When Panic Alarm Station can't be searched in SADP, can't ping IP successfully or the device is crashed. In this situation, security control panel need to be upgraded by RS232 cable.
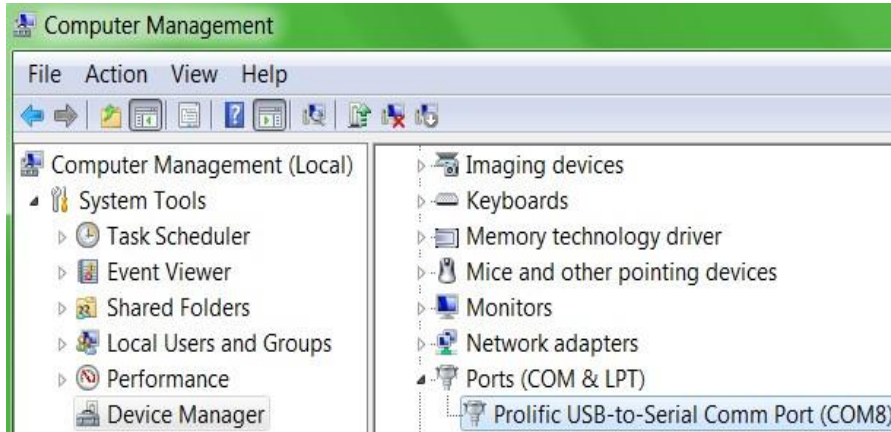**Important Note: Computer must close the firewall.**

1. **Connect laptop USB port with Panic Alarm Station by RS232 cable.**

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

3. Open SecureCRT and configure below parameters.

4. Hold down the Enter key when the Panic Alarm station power on.

```
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:

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:
```

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!     *
*   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
```

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

```
**************************************************
Now press [u/U] key to upgrade software: b
HKVS # pri
bootcmd=tftp 0x80400000 $(bootfile);bootm 0x80400000;
default=cramfsload 0x80400000 uImage; cramfsload 0x80800000 ramdisk.gz;
sec=tftp 0x80400000 uImage_sec;tftp 0x80800000 ramdisk.gz;bootm 0x80400000 0x80800000;
bootdelay=1
baudrate=115200
ipaddr=192.0.0.64
serverip=192.0.0.128
gatewayip=192.0.0.1
netmask=255.255.255.0
bootfile="uImage"
phyaddr0=3
mdio_intf=rmii
bootargs=mem=382M console=ttyS0,115200
ethaddr=58:03:fb:b6:e7:8f
stdin=serial
stdout=serial
stderr=serial
verify=n
ver=U-Boot 2010.06 (Aug 08 2017 - 13:51:42)

Environment size: 525/4092 bytes
HKVS #
```

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

setenv serverip 10.9.98.35;

setenv ipaddr 10.9.98.20;

setenv gatewayip 10.9.98.254

-- serverip   :PC IP address

-- ipaddr   :Device IP address

-- gatewayip :Gateway address

```
Environment size: 526/4092 bytes
HKVS # setenv serverip 10.9.98.35;
HKVS # setenv ipaddr 10.9.98.20;
HKVS # setenv gatewayip 10.9.98.254
HKVS #
HKVS #
```

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

```
Environment size: 526/4092 bytes
HKVS # pri
bootcmd=tftp 0x80400000 $(bootfile);bootm 0x80400000;
default=cramfsload 0x80400000 uImage; cramfsload 0x80800000 ramdisk.gz;
sec=tftp 0x80400000 uImage_sec;tftp 0x80800000 ramdisk.gz;bootm 0x80400000 0x80800000;
bootdelay=1
baudrate=115200
netmask=255.255.255.0
bootfile="uImage"
phyaddr0=3
mdio_intf=rmii
bootargs=mem=382M console=ttyS0,115200
ethaddr=58:03:fb:b6:e7:8f
stdin=serial
stdout=serial
stderr=serial
verify=n
ver=U-Boot 2010.06 (Aug 08 2017 - 13:51:42)
serverip=10.9.98.35
ipaddr=10.9.98.20
gatewayip=10.9.98.254

Environment size: 526/4092 bytes
HKVS #
```
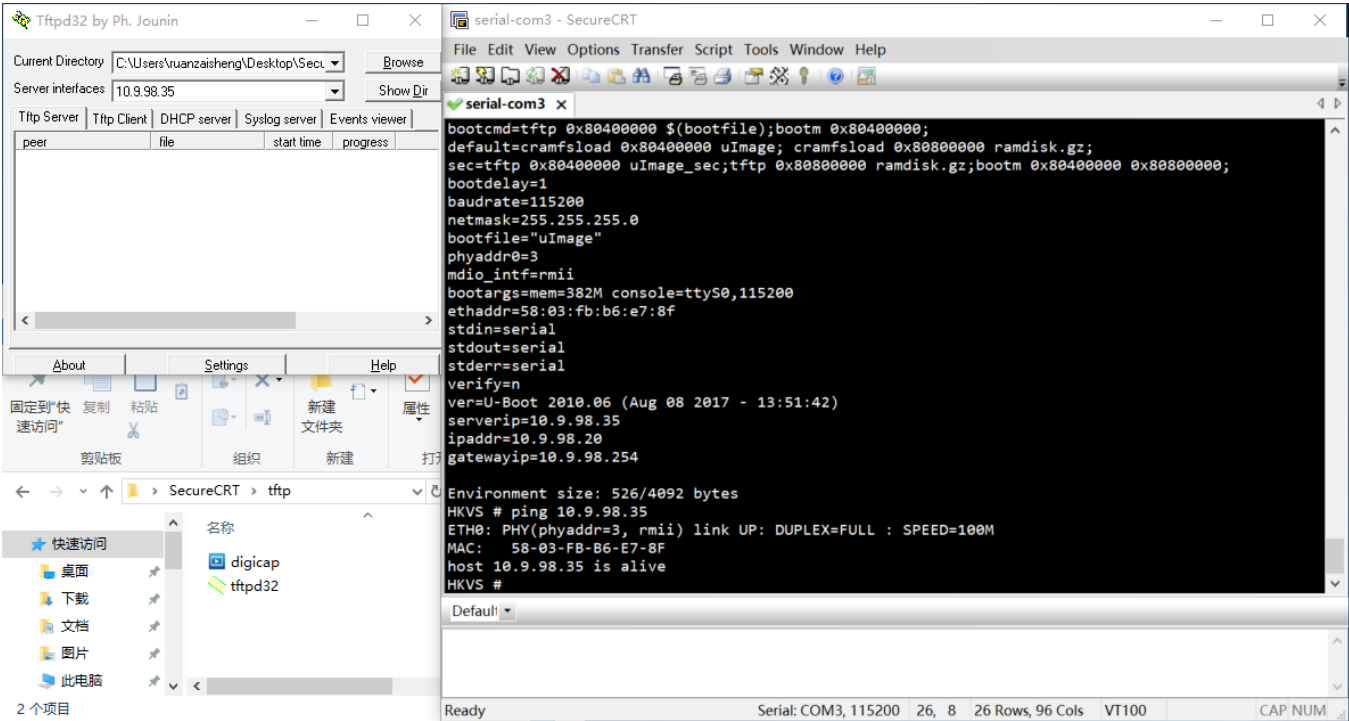
9. Enter ping 10.9.98.35 , check device and PC is connected.
   Host 10.9.98.35 is alive means connection is ok.

```
phyaddr0=3
mdio_intf=rmii
bootargs=mem=382M console=ttyS0,115200
ethaddr=58:03:fb:b6:e7:8f
stdin=serial
stdout=serial
stderr=serial
verify=n
ver=U-Boot 2010.06 (Aug 08 2017 - 13:51:42)
serverip=10.9.98.35
ipaddr=10.9.98.20
gatewayip=10.9.98.254

Environment size: 526/4092 bytes
HKVS # ping 10.9.98.35
ETH0: PHY(phyaddr=3, rmii) link UP: DUPLEX=FULL : SPEED=100M
MAC:   58-03-FB-B6-E7-8F
host 10.9.98.35 is alive
HKVS #
```
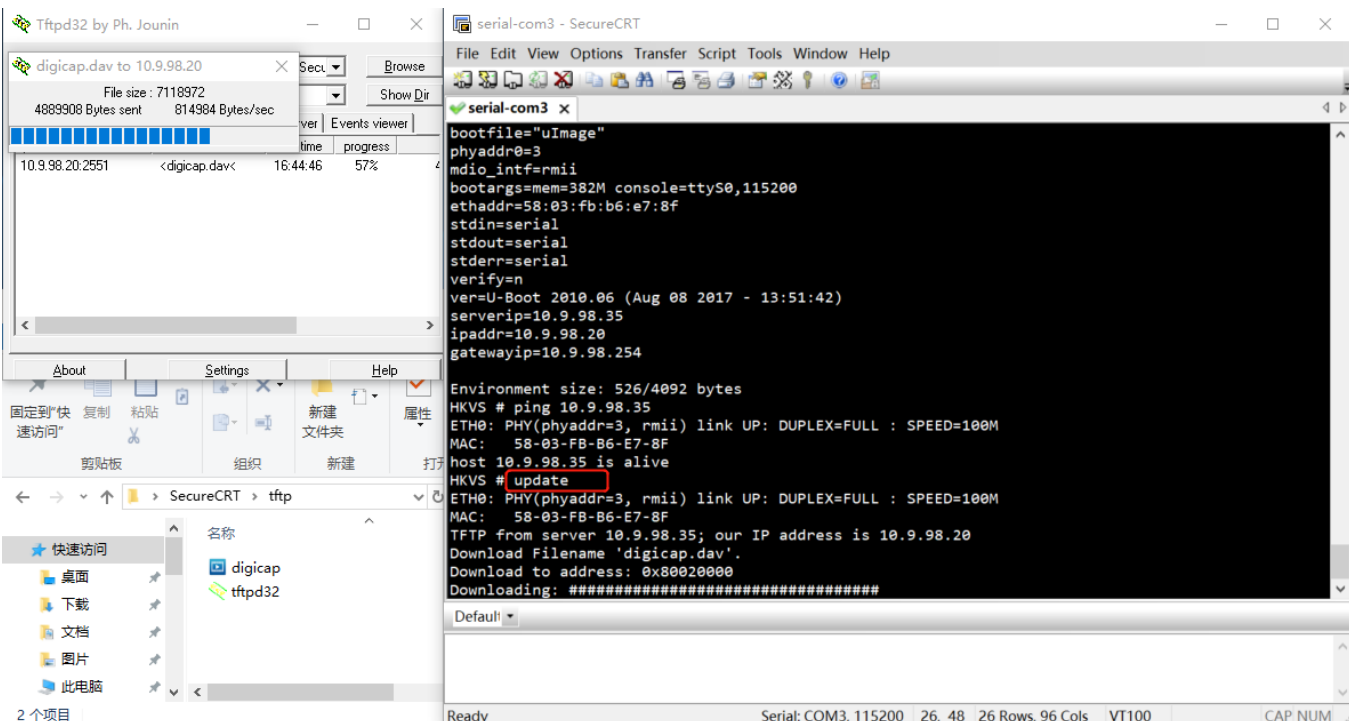
10. Copy firmware to the tftp catalog, then open tftp.

11. Enter update.

12. Upgrade successful.

```
Environment size: 526/4092 bytes
HKVS # ping 10.9.98.35
ETH0: PHY(phyaddr=3, rmii) link UP: DUPLEX=FULL : SPEED=100M
MAC:   58-03-FB-B6-E7-8F
host 10.9.98.35 is alive
HKVS # update
ETH0: PHY(phyaddr=3, rmii) link UP: DUPLEX=FULL : SPEED=100M
MAC:   58-03-FB-B6-E7-8F
TFTP from server 10.9.98.35; our IP address is 10.9.98.20
Download Filename 'digicap.dav'.
Download to address: 0x80020000
Downloading: ##############################################
done
Bytes transferred = 7118972 (6ca07c hex)
cramfs.img checkSum ok !
Erasing SPI flash...done
Writing SPI flash...done
Upgrade check ......done
Erasing devcfg...done
HKVS #
```

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