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	Panel by RS232 Cable				
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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.



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Computer Management	
File Action View Help	
🛃 Computer Management (Local)	> 🔚 Imaging devices
🔺 🞁 System Tools	🛛 🛲 Keyboards
•	Memory technology driver
Event Viewer	Mice and other pointing devices
Shared Folders	Monitors
Local Users and Groups	Network adapters
▷ [®] Performance	Ports (COM & LPT)
📇 Device Manager	Prolific USB-to-Serial Comm Port (COM8)

3. Open SecureCRT and configure below parameters.

Protocol:	Serial	•
P <u>o</u> rt:	COM8 -	Flow Control
Baud rate:	115200 👻	DTR/DSR
<u>D</u> ata bits:	8 🔻	
P <u>a</u> rity:	None 🔹	<u></u>
<u>S</u> top bits:	1 -	
📃 Sho <u>w</u> quick	connect on startup	Save session

4. Hold down **U** when the Hub power on.

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Boot 2018.1	(May 26 2018 - 09:19:57)				
Check Flash M SPI Nor(cs 0) spi_w25q256fv Block:64KB Ch SPI Nor total *** Warning -	Memory Controller v100 Found) ID: 0xef 0x40 0x18 v_solve_flash_lock_qe_enable(268): nip:16MB Name:"W25Q128(B/F)V" L size: 16MB - bad CRC, using default environmen	Error: Dis t	able Quad fail	Led! re	≥g:0x2
Hit any key t	to stop autoboot: 0				
This program ************	will upgrade software.	*****			
* ATTENTION	! PLEASE READ THIS NOTICE CAREFULL	Y! *			
* Don't rese	et machine, or anything that interru	ot it. *			
* The upgrad	le process must finish in 10 minute	s! *			
* If this pr	rogram fails,machine might be unusa	ble, *			
* and you with	ill need to reflash again.	*			
* If you fir	nd this too risky,power off machine	now. *			
*****	*************	****			
Now press [u/	<pre>(U] key to upgrade software: b</pre>				

5. Enter b.





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

System startup
Uncompress Ok!
Boot 2019.12 (Mar 25 2020 - 19:18:06)hi3516dv200
Relocation Offset is: 1f796000 Relocating to Sff96000, new gd at Sff13da8, sp at Sff13d80 SPI Nor: hifmc_tp_ver_check(44): Check Flash Memory Controller v100hifmc_ip_ver_check(50): Found hifmc_spi_nor_probe(1689): SPI Nor ID Table Version 1.0 hifmc_spi_nor_probe(1689): SPI Nor (50) DI: Oxef 0x40 0x19 hifmc_spi_nor_probe(1754): Block:64K8 hifmc_spi_nor_probe(1755): Chip:32MB hifmc_spi_nor_probe(1756): Name:"w25Q256FV" hifmc_spi_nor_probe(147): SPI Nor total size: 32MB In: serial Cut: serial Err: serial Net: eth0 Hit any key to stop autoboot: 0
This program will upgrade software. ************************************

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



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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.



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<pre>ethaddr=58:05:10:06:06:07 stdin=serial stdout=serial stderr=serial verify=n ver=U-Boot 2010.06 (May 26 2018 - 09:1 serverip=10.9.96.44 ipaddr=10.9.96.160 gatewayip=10.9.96.254 Environment size: 527/4092 bytes boot # boot # boot # ping 10.9.96.44 eth0 : phy status change : LINK=DOWN : eth0 : phy status change : LINK=UP : D host 10.9.96.44 is alive boot # boot</pre>	.9:57) DUPLEX=FULL DUPLEX=FULL :	: SPEED=: SPEED=100	100M 9M	

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

🏘 Tftpd32 by Ph. Jounin 🛛 — 🗆 🗙	Paral 👢 Security Control Panel 🔐 Event Management 🔔 Alam Event 🖉 Divice Management
Current Directory C:\Users\ruanzaisheng\Desktop\TFTf - Browse	🐻 serial-com3 - SecureCRT – 🗆 🗙
Server interface 10.9.96.44 Show Dir	File Edit View Options Transfer Script Tools Window Help
Tftp Server Tftp Client DHCP server Syslog server Events viewer	#2 第2 日 #2 ▲ ▲ 日 〒 〒 ● 〒 ※ ↑ ◎ ■
peer file start time progress	✓ serial-com3 × 4 ▷
< >	<pre>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</pre>
1	boot #
About Settings Help	eth0 : phy status change : LINK=DOWN : DUPLEX=FULL : SPEED=100M
📕 🗹 📕 🖛 TFTP — 🗆 🛛 🗡	eth0 : phy status change : LINK=UP : DUPLEX=FULL : SPEED=100M
文件 主页 共享 香看 管理 へ 🤇	host 10.9.96.44 is alive
	boot # boot # boot # update eth0 : phy status change : LINK=UP : DUPLEX=FULL : SPEED=100M TFTP from server 10.9.96.44; our IP address is 10.9.96.160 Download Filename 'digicap.dav'. Download to address: 0x80008000 Download to address: 0x80008000
	Downloading: * TFTP error: 'File not found' (1)
▲ 名称	Not retrying
▼ 快速访问 ◆ tftpd32	boot #
■ 杲田	Default •
▶ N载 <i>オ</i>	^
■ 图片 ★ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲	Ready Serial: COM3 115200 26 8 26 Rows 96 Cols VT100 CAP NUM

12. Enter update.



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13. Upgrade successful.

```
boot # update
eth0 : phy status change : LINK=DOWN : DUPLEX=FULL : SPEED=100M
eth0 : phy status change : LINK=UP : DUPLEX=FULL : SPEED=100M
TFTP from server 10.9.96.44; our IP address is 10.9.96.160
Download Filename 'digicap.dav'.
Download to address: 0x80008000
done
Bytes transferred = 13206032 (c98210 hex)
alloc 16292 bytes persist memory.
alloc 10184 bytes scratch memory.
cry lib created successfully, LIB VERSION 0.8.0, DATE 15.6.12
file header error; header chsum:0x8100874c[0x32c4], len:3097705136[108], filenum:3619483013
Can not find correct packet, try to decrypt..
result is: PASS!
                                 decoding, please wait.
firm file decode ok
checking hash, please wait.
hash check ok.
cramfs.img checkSum ok !
Erasing SPI flash...done
Writing SPI flash...done
Upgrade check .....done
Erasing devcfg...done
boot #
```



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