

Como actualizar el firmware de una lectora a travez de un puerto serie

HIKVISION TECHNICAL SUPPORT TEAM 2018-7-16





How to upgrade reader firmware through serial port

1. Prepare the cable and board which will be used to connect reader and our PC(4 parts)

1



2. Connect cable and board together, then one side connect to reader(take DS-K1103M for example, other model has same operation), another side connect to computer USB port.







 Connect reader cable(red, black, yellow, blue) to access controller power output and RS485 input(ensure access controller power is off)

2



4. Open SecureCRT software and click Quick Connect



- 5. Configure Quick Connect and click connect.
 - a. Select Serial in Protocol
 - b. Select the port used by the serial port
 - (How to check your computer's port please refer to 6th step)
 - c. Select 115200 in Baud rate
 - Other options remain default.





💼 not connected - SecureCRT	_	\times
File Edit View Options Transfer Script Tools Window Help		
Image: Control Serial Quick Connect X Protocol: Serial Port: COM5 Baud rate: TIX05R		Ŧ
Data bits: 8 CRTS/CTS Parity: None XON/XOFF Stop bits: 1 V		
Show quick connect on startup		
Ready 0, 0 Rows, 0 Cols		JM

3

This section guide you how to check the serial port which is used to connect card reader. 6. Click the computer icon on the desktop, right-click and select Manage, enter the following interface. Click, Device Manager, and then click the port to view. Here shows COM5, so we have to select com5 in front step.

🐏 计算机管理		
文件(F) 操作(A) 查看(V)	帮助(H)	
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🎥 计算机管理(本地)	A MB-YUJUNWENS	操作
🔺 👔 系统工具	▷ - Cara IDE ATA/ATAPI 控制器	设备管理器▲
▷ 🕑 任务计划程序	▶ 🛄 处理器	更多操作 ▶
▶ 🛃 事件查看器	▶→→→ 磁曲驱动器	A CONTRACTOR A
▶ 📓 共享文件夹	▶ ◆ 存储控制器	
▶ 🌸 本地用户和组	▶ 邊 电池	
	▲·習 端口 (COM 和 LPT)	
→ 反首百理論	Prolitic USB-to-Serial Comm Port (COMS)	
4 2 仔细		
1. 服务和应用程序		
P D RK95 THUE DIED	「「「「「「」」の存ち术取动程序	
	- 编 人体学输入设备	
	▶ ⑧ 生物识别设备	
	声音、视频和游戏控制器	
	▶- 2 鼠标和其他指针设备	
	▷-員 通用串行总线控制器	
	▷ 🔮 网络适配器	
	D 📜 系统设备	
	▶-圖 智能卡读卡器	
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7. After step 5, click Connect to enter the following interface, if you see a green $\sqrt{}$ icon, it means connect successfully.

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File	Edit	View	Options	Transfer	Script	Tools	Window	Help					
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< ser	ial-co	m5 (1)	×										4 Þ
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Ready			Serial: (сом5, 1152	200 1,	1	24 Rows, 80) Cols	VT100			CAP	NUM

8. Continuously press U on your PC keyboard, then switch on the access controller. Then you will find printed message in the box. After main menu is displayed, it means entered upgrade mode successfully, if not, please power off access controller then repeat this step again.

🝙 serial-com5 - SecureCRT	_		×
File Edit View Options Transfer Script Tools Window Help			
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🖋 serial-com5 🗙			₫ Þ
=By Access Production Team	=		^
Please Input 'u' in 5 SEC For Update The Soft Or It will Jump To User Application 5 SEC Later			
byreaderUpdateFlag=0x0 s_by485SwitchAddr=0x1			
= (C) COPYRIGHT 2014 Hangzhou Hikvision Digital Technology Co.,Lt	d =		
= DS-K110X (Version 1.0.0 build20141014)	=		
= By Access Production Team	=		
Please Input 'u' in 5 SEC For Update The Soft Or It will Jump To User Application 5 SEC Later			
byreaderUpdateFlag=0x0 s_by4855witchAddr=0x1			
Main Menu			
Download Image To the STM32F10x Internal Flash 1			
Execute The New Program 2			
Invalid Number ! ==> The number should be either 1 or 2			
			¥
Ready Serial: COM5, 115200 32, 1 32 Rows, 80 Cols VT100		CAP	NUM





9. And we can find current reader firmware version is 1.0.0build20141014.

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Input 1 and Enter key from keyboard, you will find below message

🝙 serial-com5 - SecureCRT	_		Х
<u>Eile</u> Edit <u>V</u> iew <u>Options</u> <u>Iransfer</u> <u>Script</u> Too <u>l</u> s <u>W</u> indow <u>H</u> elp			
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✓ serial-com5 ×			≬
Please Input 'u' in 5 SEC For Update The Soft Or It Will Jump To User Application 5 SEC Later			1
byreaderUpdateFlag=0x0 s_by485SwitchAddr=0x1			
= (C) COPYRIGHT 2014 Hangzhou Hikvision Digital Technology Co.,Ltd	=		
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Please Input 'u' in 5 SEC For Update The Soft Or It Will Jump To User Application 5 SEC Later			c
byreaderUpdateFlag=0x0 s_by4855witchAddr=0x1			
Main Menu			
Download Image To the STM32F10x Internal Flash 1			
Execute The New Program 2			
Invalid Number 1> The number should be either 1 or 2 Waiting for the file to be sent (press 'a' to abort) CCCCCC			
Ready Serial: COM5, 115200 32, 7 32 Rows, 80 Cols VT100		CAP	NUM

10. Select Transfer \rightarrow Send Ymodem from menu

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🕞 serial-com5 - SecureCRT			×
File Edit View Options Transfer Script Tools Window Help			
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Please Input 'u' i Send Binary Soft			^
Send Xmodem			
byreaderUpdateFlag=0x Receive Xmodem s by4855witchAddr=0x1			
= (C) COPYRIGHT 2014 H Send Ymodem	=		
= DS-K110X Receive Ymodem	-		
= Zmodem Upload List Production Team	=		
Please Input 'u' in Jose For Opdate The Soft Or It Will Jump To User Application 5 SEC Later	-		i
byreaderUpdateFlag=0x0 s_by485switchAddr=0x1			
Main Menu			
Download Image To the STM32F10x Internal Flash 1			
Execute The New Program 2			
Invalid Number ! ==> The number should be either 1 or 2 Waiting for the file to be sent (press 'a' to abort)			
			~
Serial: COM5, 115200 32, 58 32 Rows, 80 Cols VT100	C	AP NUM	M



11. Select upgrade file, the file name should end with Serial.bin (for example ACS_DS-

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K110X_GML_GM_V2.0.1_build180316_Serial.bin), then click Add and OK

serial-cor	m5 - SecureCRT		- 🗆	\times
File Edit	Select Files to Send using Ymodem		×	Ŧ
erial-cor or It		; 📂 🛄 🔻		
byreader s_by4855 : (C) COP : :	ACS DS-K110X GML GM V2.0.1 buil ACS_DS-K110X_GML_GM_V2.0.1_buil] DS-K4T100.pdf EasyConnect select upgrade file which name er PflashFXP.exe - 快速方式 ElashFXP.rar	nd with Se	^ erial	
Pleas Or It	How to upgrade reader through se Person Information Template.csv	_	~	
byreader s_by4855	文件名(N): ACS_DS-K110X_GML_GM_V2.0.1_build180316_Ser 文件类型(T): All Files (*.*)	i Add	i	
Downloa Execute	Files to send:			
:nvalid N /aiting f :cccccccc :cccccccc	Upload files as ASCII OK Cancel			ccccc
eady	Serial: COM5, 115200 32, 40 32 Rows, 80 Cols VT1	00	CA	P NUM

12. Then you will see below picture, the upgrade file will be send to reader. It will take about 5-

10s to finish sending the file.

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🝙 serial-com5 - SecureCRT	_		×				
File Edit View Options Transfer Script Tools Window Help							
🔝 況 🎧 🖏 Enter host <alt+r></alt+r>			÷				
✓ serial-com5 ×			4 ⊳				
= DS-K110X (Version 1.0.0 build20141014)	=		^				
By Access Production Team	=						
Please Input 'u' in 5 SEC For Update The Soft Or It will Jump To User Application 5 SEC Later							
byreaderUpdateFlag=0x0 s_by485SwitchAddr=0x1							
Main Menu							
Download Image To the STM32F10x Internal Flash 1							
Execute The New Program 2							
Invalid Number ! ==> The number should be either 1 or 2 Waiting for the file to be sent (press 'a' to abort)							
CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC							
Ready Serial: COM5_115200_32_52_32 Rows_80 ColsVT100	-	CAP N	ч				

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13. After upgrade successfully, the reader will give a beep sound and restart automatically.

7



14. After showing front picture, then restart access controller and double check reader firmware from 4200 software.

File	System View Tool Help			
	Control Panel 🛛 🛃 Access Contr			
모	Access Control Parameters 🔣 Card	Reader Authentication 🛗 Multiple Authentication	on 💼 Open Door with First Card 🖥	🖡 Anti
	Controller List	Card Reader Information:		
B	Search P	Basic Information		
EG	🛃 👢 K1T201	Nickname:	Entrance Card Reader1	
	E My 2604	Enable Card Reader:	Yes	-
V	Door1	OK LED Polarity:	Anode	-
*	Tentrance Card Reader1	Error LED Polarity:	Anode	-
\$	📲 Exit Card Reader2	Buzzer Polarity:	Anode	-
	🕐 📕 Door2	Minimum Card Swiping Interval:	0	s
y.	🕐 📕 Door3	Max. Interval When Inputting Password:	10	s
	🕐 🧧 Door4	Enable Eailed Attempts Limit of Card Baadi	No	7
₿	🌛 Alarm Output1	Enable Failed Allempts Limit of Card Readi	NO	
	🍌 Alarm Output2	Max. Times of Card Swiping Failure:	5	
	🍌 Alarm Output3	Enable Tampering Detection:	No	-
	🍌 Alarm Output4	Detect When Card Reader is Offline for:	0	s
	👑 Zone1	Buzzing Time:	10	s
	👑 Zone2	Card Reader Type:		
	Zone3	Cond Dearthe Dearst Harry		
	👑 Zone4	Card Reader Description:	DS-K1103M/MK bulid20180316	
	🕑 🎩 K1T501	Fingerprint		
		Fingerprint Recognition Level:	Low	•





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