## Installation and Operation Instruction for Switching Function of

## **USB port and Virtual COM**

Instructions for switching function of USB port and Virtual COM

Instruction code:

Decimal system: 31 27 31 184 19 20 N

Hexadecimal system: 1F 1B 1F B8 13 14 N

Functional description: you can switch to the real USB port or USB Virtual COM; value ranges of N, notes: N=0, USB port; N=1, Virtual COM.

Both the NXP chip and ST chip support this function, you should firstly confirm which kind of chip and install the driver according to the type of chip.

- I. How to view NXP chip and ST chip
- 1. At first, go to the Universal Serial Bus controllers of Device Manager and find USB printing support; as shown in the following picture.



2 View VID/PID information on USB port, as shown below:

📮 Device Manager		
File Action View Help		
(==) 🖬 🖺 🖥 🚳 🕅 🕅 🚳		
AUS-PC     Computer     Dek drives     Dek dri	USB Printing Support Properties General Davar Details USB Printing Support Property Device Instance Path Value USB/ND_1FCS}/PD_2016[638002CFF8085 nxp chip usb port information OK Cancel	

You can view the NXP chip information in the above picture; USB port VID/PID information 0483/5743 of ST chip

- II. Take the WINXP system as an example, the installation instruction of NXP chip program should be operated as follows:
  - 1. Send instructions by modifying tools of the printer or directly click Switch button, provided that the on-line testing of the printer and the computer is normal.

POS PRINER TEST V2.2	86
Science and technology,leading the innovation	
Port Select C LPT C COM C USB C ETHERNET LPT Select COM Settings USB Settings USB Settings USB Settings COM V 9600 V USB002 V	r Type OS-58 OS-80 OS-76
ETHERNET Settings           Computer IP:         192 .168 . 1 .110         Refresh           Printer IP:         192 .168 . 0 . 0         ConnectTest         Image: ConnectTest	ping
New Ethernet ID: ••• Set ID (Set	last four ID)
Print Content: Repetition 1 + FBX	Print Test Cash Paper Cutter Paper Traditional Monitoring Advanced
POS PRINER TEST PROGRAM V2.2 POS Copyright(c	English ) JS
USB:USB001 16:44:59	2015/5/9

Method 1

躍 Advance	×
H Parameter Set: Print H Set delta 5	
Code page Set: Print SetCodePage 0	
NV Logo Test: NV Down	
Barcode Printing PrintBarcode CODE128 I 162 High	
P76 Buzzer Set: BuzzerSet	
P76 Density Set: DensitySet Normal 💌	
P80 Black sens: Set Sens 12 💌 12 💌 🗖 SensH	
Net Setting: Set Net BluetoothSet	
USB MODE SET: USB Printing Virtual COM 2	
USB Check: USB Check	Return
Advar	nced
POS PRINER TEST PROGRAM V2.31	isn
μ() 5 Copyright(C) JS	
USB:USB003 11:18:12 PM   4/1	972015

2. After the first step, install the Virtual Com driver to the printer; firstly go to the Device Manager and find the unknown device with a question mark, click the right key to select Red box 2 under the option "Update Driver Software...", as shown below:



3. Click "Browse", you can browse the folder that contains drivers, click "Ok" and then click "Next", as shown below:

🗓 Up	date Driver Software - Printer-80	×
Θ	Update Driver Software - Printer-80	
	Browse for driver software on your computer	
	Browse For Folder	
	Select the folder that contains drivers for your hardware.	
	Printer Program Update     driver     inxp     ist     PRINTER SETTING SOFTWARE     Virtual com driver  Folder: □xp	
	OK Cancel	
	Next Cancel	

4. If the driver starts installation and the dialog box pops up, please choose "Install this driver software anyway" and then go on the installation, as shown below:

nstalling	driver software
🛞 Win	dows Security
$\otimes$	Windows can't verify the publisher of this driver software
	Don't install this driver software You should check your manufacturer's website for updated driver software for your device.
	Install this driver software anyway Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
-1-	

5. After the completion of the installation, the COM port generates automatically, as shown below:



6. Click "Close", you can check the newly-added COM port in "Ports" of the device manager, as shown below:

📲 Device Manager	<u>ı ×</u>
File Action View Help	
Image: Second	

7. After the installation of the driver, you should select the auto-generated COM port in the software or the driver to connect to the USB data, as shown below:

POS PRINER TEST V2.31		
Science and technology,leading the innov	vation	
Port Select       C LPT       C COM       C USB       C ETHERNET         LPT Select       COM Settings       USB Settings         LPT1       COMS       9600       USB 003         ETHERNET Set in COM3       COM4       68 . 19 . 113       Refress         COM6       68 . 0 . 0       Connect       Come         Printer IP:       COM7       68 . 0 . 0       SetIP         New IP Address:       COM9 ▼ 68 . 0 . 0       SetIP	Printer Type © POS-58 © POS-80 © POS-76 sh Test ping	
New Ethernet ID: · · · SetID	Cet last four ID)	
Print Content: Repetition 1 +	HEX	
Welcome to use the impact and thermal printer manufactured by professional POS receipt printer company! Cash Paper Cutter Paper Traditional Monitoring Advanced		
POS PRINER TEST PROGRAM V2.31	English Copyright(C) JS	
COM5:9600, n, 8, 1	1:01:47 PM   5/7/2015	

**Prompts:** if the installation failed, firstly copy "usbser.sys" file in Favorites of the driver to Disk C of the computer, and install it once more. The specific operation as shown follows: A: Browse the Favorites of the Driver and find the file, as shown below:

<u>]</u> пхр			
🕞 🕞 🗸 🕨 🗸 Printer Program Upo	late 🕶 driver 👻 nxp 🛛 👻 🚱	Search nxp	2
Organize 🔻 Include in library 👻	Share with 🔻 New folder	:== 👻	
🗆 🗙 Favorites	Name ^	Date modified	Туре
🧾 Desktop	🖀 dpinst	2010/7/23 21:28	XML Docum
🐌 Downloads	💐 dpinst_amd64	2010/7/23 21:28	Application
	💐 dpinst_ia64	2010/7/23 21:28	Application
E 🕞 Libraries	💐 dpinst_x86	2010/7/23 21:28	Application
	printer-vcom	2015/5/21 9:06	Setup Infor
	🚳 usbprint.sys	2008/4/12 19:47	System file
🕀 📄 PPTV	🚳 usbser.sys	2006/8/18 11:33	System file
🕀 📄 Subversion	🥏 vserial	2010/7/22 19:18	Security Ca
🕀 📑 Videos			
E 1 Computer			
	_		
🕀 💼 Local Disk (E:)			
🕀 👝 Local Disk (F:)			
🕀 🛃 CD Drive (G:)	▼ <u> </u> ↓		•
8 items			

B: After you find this file and copy it to the Computer: /windows/system32/drives

C: Window	vs\System32\drivers		
ganize 🔻 🔳 Open wi	th Burn New folder	1=	= 🗕 🛄
Favorites	Name *	Date modified	Туре
🥅 Desktop		11/20/2010 7:23 PM	System file
Downloads	Construction and a second seco	7/13/2009 5:06 PM	System file
🖳 Recent Places	Suchd svs	7/13/2009 5:06 PM	System file
-		11/20/2010 7:23 PM	System file
Libraries	a usbend.sys	11/20/2010 7:23 PM	System file
Music		7/12/2010 7:23 PM	System file
Pictures	luchport sys	11/20/2010 7:22 PM	System file
Videos		7/13/2000 5:29 PM	System file
		11/20/2010 7:24 PM	System file
Computer	S usbser svs	8/18/2006 11:33 AM	System file
Local Disk (C:)	S USESTOR SYS	11/20/2010 7:23 PM	System file
Local Disk (E:)	Sushubri.svs	7/13/2009 5:06 PM	System file
Local Disk (F:)	vdryroot.sys	7/13/2009 6:45 PM	System file
👝 Local Disk (G:)	vga.svs	7/13/2009 4:38 PM	System file
	vgappp.svs	7/13/2009 4:38 PM	System file
Network		2* - 14	-,-,-

After the completion of 2 steps, please reinstall it

III. Installation instruction for ST chip program is shown as follows:

The installation instruction for Virtual COM of NXP chip has been mentioned above, the driver program of Virtual COM of NXP chip is installed in the similar way. At first, send Switch Function Instructions of USB port and Virtual COM by modifying tools of the printer, refer the foresaid step (II)(1); and then install the driver of Virtual COM of ST chip in two ways, first, select EXE file in the corresponding operating system and install it directly, second, add the install method (see Operation of NXP chip). The first method is shown as follows:

Please choose the right installation folder according to PC system:



1. Browse the Favorites of the Driver and find the EXE file, as shown below:

G v w driver → ST → x64	✓ Search xt	54	٩
Organize 🔻 Include in library 🔻	Share with 🔻 New folder		
★ Favorites	Name	Date modified	Туре
🥅 Desktop	🖀 dpinst	2015/3/10 13:35	XML Docu
। Downloads	🕿 dpinst_amd64 🛛 🚺	2015/3/10 13:35	Application
	💐 dpinst_ia64	2015/3/10 13:35	Application
词 Libraries	📄 read me	2015/3/10 13:35	Text Docur
Documents E	🚳 usbprint.sys	2015/3/10 13:35	System file
J Music	🚳 usbser.sys	2015/3/10 13:35	System file
Pictures	2 VCP_V1.3.1_Setup_x64	2015/3/10 13:35	Application
PPTV	vserial	2015/3/10 13:35	Security Ca
Subversion	📰 vserial_x64	2015/3/10 13:35	Setup Infor
Videos 📃			
	<ul> <li>If erro happen during installa</li> </ul>	ation for	
n Homegroup	file 1 pls try the file 2		
Computer	<		F
9 items			

2. After double-click, click "Next" and installation program starts, as shown below:



3. If the dialog box pops up during the installation, please select "Install this driver software anyway" and go on installation, as shown below:



4. The driver is installing

Device Driver Installation Wizard
The drivers are now installing
Please wait while the drivers install. This may take some time to complete.
<back next=""> Cancel</back>

5. Click "Finish", the installation of the driver is complete, the COM port pops up automatically in the port of device manager. As you use port, please select auto-generated COM port.

Device Driver Installation Wi	zard
	Completing the Device Driver Installation Wizard
	The drivers were successfully installed on this computer.
	Driver Name     Status       ✓ Printer (usbser) Ports (1 Device Updated
	K Back Finish Cancel

Prompts:

If the installation failed, firstly copy "usbser.sys" file in Favorites of the Virtual COM driver of ST to Disk C of the computer, and install it once more. The specific operation sees the installation method for NXP chip above mentioned: