

Created January 2009

This application note shows how to install a Star Micronics printer on Ubuntu Linux 8.04. While this document was developed using the ethernet TSP828 and USB TSP700II, the following directions suffice for setting up any Star Micronics Ethernet or USB printer model on Ubuntu Linux 8.04.

Download the CUPS 10.2.0 driver from the support section of <u>http://www.starmicronics.com/</u>. Extract the files to the desktop for easy access or in the preferred directory. Open the CUPS 2.10.0 folder and copy the 'starcupsdrv-2.10.0.tar.gz' file to the desktop.

Open Terminal and type in each line separately:

- (1) Type 'sudo apt-get update'
- (2) Type 'sudo apt-get install gcc'
- (3) Type 'sudo apt-get install libcupsys2-dev'
- (4) Type 'sudo apt-get install libcupsimage2-dev'
- (5) Type 'cd Desktop'
- (6) Type 'sudo tar xzvf starcupsdrv-2.10.0.tar.gz'
- (7) Type 'cd starcupsdrv'
- (8) Type 'sudo make'
- (9) Type 'sudo make install'

Open a web browser (such as Mozilla Firefox). Type 'localhost:631' in the address bar and hit enter.

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Installing an Ethernet Printer

Perform a hardware self test on the printer by turning the power off, holding the feed button down, and turning the printer back on. It will print two tests.

The second test will show the current IP parameters at the bottom of the page. It will display the DHCP or BOOTP IP address. If it shows all zeros with "Didn't obtain", an IP address must be manually assigned via Terminal.

To manually assign an IP address using the arp command:

Open Terminal and type in 'arp –s *IP address* *MAC address*' (Example: arp –s 192.168.192.25 00:11:62:04:EA:12)

For DHCP/BOOTP IP addresses, open Terminal and type telnet IP address (ie: telnet 192.168.192.25)



Enter the below information: Login: root Password: public



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98) Save & Restart 99) Quit		
Enter Selection: 1		
=== IP Parameters Menu 1) Static IP Address Subnet Mask Default Gatewa 2) Dynamic	=== : 192.168.192.25 : 255.255.255.0 y : 0.0.0.0	
DHCP/BOOTP RARP 99) Back to Main Menu	: DISABLE : DISABLE	
Enter Selection: 1		
<pre>=== Static IP Address = 1) IP Address : 2) Subnet Mask : 3) Default Gateway : 99) Back to IP Address</pre>	== 192.168.192.25 255.255.255.0 0.0.0.0 Menu	
Enter Selection:		

Type "1" after "Enter Selection". Then, type in the desired static IP address. After setting the static IP address, type "2" after "Enter Selection". Set the Subnet Mask to "255.255.255.0".

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<u>F</u> ile <u>E</u> dit <u>V</u> iew <u>T</u> erminal Ta <u>b</u> s <u>H</u> elp	
Enter Selection: 99	
<pre>=== IP Parameters Menu === 1) Static</pre>	
IP Address : 192.168.192.25	
Subnet Mask : 255.255.25.0	
Default Gateway : 0.0.0.0	
RARP : DISABLE	
99) Back to Main Menu	
Enter Selection: 99 === Main Menu === 1) TP Parameters Configuration	
 2) System Configuration 3) Change Password 6) Display: Status 	
97) Reset Settings to Defaults 98) Save & Restart 99) Quit	
Enter Selection:	

After the IP Parameter have been changed, type "98" to save and restart the device. Then, type "1" to quit.



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Enter Selection: 99	<u> </u>
<pre>=== Main Menu === 1) IP Parameters Configuration 2) System Configuration 3) Change Password 96) Display Status 97) Reset Settings to Defaults 98) Save & Restart 99) Quit</pre>	
Enter Selection: 98	
=== Save to NVRAM & Restart NIC Menu === 1) Save & Configuration printing & Restart device 2) Save & Restart device 4) Exit without saving	
99) Back to Main Menu	
Enter Selection: 1	
The configuration data is being written in memory. (Don't turn off power the device.) ∎	

The printer will print the IP parameters.



Adding the Ethernet Printer in CUPS

Click the "Add Printer" button.





Type in the Printer Name (Required), location and Description (optional) then click the "Continue" button.

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← → ▼ & ③ 爺 ⓒ http://localhost:631/admin?OP=add-printer	0
🛅 Most Visited 🔻 🎓 Getting Started 🔊 Latest Headlines 🕶	
Add Printer Home Administration Classes Documentation/Help Jobs Printers	
Name: TSP828L (May contain any printable characters except "/", "#", and space)	
Location: LAN (Human-readable location such as "Lab 1")	
Description: (Human-readable description such as "HP LaserJet with Duplexer") Continue	
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(continued)

Choose "LPD/LPR Host or Printer" in the device list.





Type in the Device URI as follows:

Lpd://IP address/printer name

(ie: lpd://192.168.192.25/TSP828LAN) then click the "Continue" button.

Add Printer - CUPS 1.3.7 - Mozilla Firefox		_ • ×
<u>File E</u> dit <u>V</u> iew Hi <u>s</u> tory <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp		5 ¹ 8 25
🖕 🔿 👻 🙆 🕋 💽 http://localhost:631/admin	☆ 🕶 💽 – Google	0
📷 Most Visited 🔻 🎓 Getting Started 🔊 Latest Headlines 👻		
Add Printer Home Administration Classes Documentation/Help Jobs Printers		
Device LIBI: 1pd://192.168.192.25/TST828LAN		
Examples:		
http://hostname:631/ipp/ http://hostname:631/ipp/portl		
ipp://hostname/ipp/ ipp://hostname/ipp/portl		
lpd://hostname/queue		
socket://hostname socket://hostname:9100		
See "Network Printers" for the correct URI to use with your printer.		
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Done		



Select "Star" in the "Make" drop down box and click the "Continue" button.



If an error message appears stating that the PPD file cannot be copied, hit the "Back" button on the browser. Scroll down to "Or Provide a PPD File:" and click the "Browse" button. Browse to the "starcupsdrv-2.10.0.tar.gz" folder and then the PPD folder.



Locate the printer model being installed, highlight it, and click the "Open" button. Then click the "Add Printer" button.

3	File Upload	X	
V Startech Desktop Starcupsdrv ppd			
<u>P</u> laces	Name	✓ Modified	
🔍 Search	sp747.ppd	05/25/2008	
Recently Used	tsp113.ppd	05/25/2008	
🗟 startech	📄 tspl13gt.ppd	05/25/2008	
💌 Desktop	📄 tsp143.ppd	05/25/2008	
🔜 File System	📄 tsp143gt.ppd	05/25/2008	
🚨 CHRISTINE B	📄 tsp613.ppd	05/25/2008	
🔜 My CD	📄 tsp643.ppd	05/25/2008	
🔜 Floppy Drive	📄 tsp651.ppd	05/25/2008	
逼 Documents	📄 tsp654.ppd	05/25/2008	
🗎 Music	📄 tsp700.ppd	05/25/2008	
逼 Pictures	📄 tsp70011.ppd	05/25/2008	
🗎 Videos	📄 tsp800.ppd	05/25/2008	
	📄 tsp828l.ppd	05/25/2008	
	📄 tsp1000.ppd	05/25/2008	
	📄 tup942.ppd	05/25/2008	
	📄 tup992.ppd	05/25/2008	
Add 🔤 <u>R</u> emove		All Files	
		Cancel	

(continued)



The browser will confirm that the printer has been added successfully.





To confirm communication to the printer, click the "Print Test Page" button. The CUPS page will print out.



Congratulations! Your ethernet Star Micronics has been successfully installed on Ubuntu Linux.



Installing a USB Printer

Once the three below driver packages below have been installed, all USB printers are "plug and play".

- 1. gcc
- 2. libcupsys2-dev
- 3. libcupsimage2-dev

Connect the printer into the PC and turn the power on. If the printer is recognized, a balloon will pop up at the top showing that the printer was added. To manage and configure the printer, open a browser (such as Mozilla Firefox) and type "localhost:631" in the address bar. Click on "Manage Printers". If the model appears in the list, your USB printer has been successfully installed.

If the model does not automatically appear, the printer must be added manually.

Click the "Add a Printer" button. Choose the Star Micronics printer model in the device list. Select it and click "Continue".

Add Printer - CUPS 1,3.7 - Moz	Printer added		
Eile Edit ⊻iew History Bookmarks Tools Help	TSP743II_(STR_T-001)' is ready for		
🖕 🧉 👻 🙆 😭 🔁 http://localhost:631/admin	Google		
Most Visited - Getting Started SLatest Headlines -	Conigure		
Add Printer	Jobs Printers		
Device for TSP700II			
Device: Star TSP743II (STR_T-001) (Star TSP743II (STR_T-001))			
Continue			
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Choose your USB printer model and click the "Add Printer" button.





It will confirm the printer model has been added successfully.





Click the "Printers" tab to go to the printer main page. Your printer will be listed here.



Click on Print Test Page to confirm there is communication.

Congratulations! You have now successfully configured and installed your USB Star Micronics printer on Ubuntu Linux.