Setting Up The Wifi Environment for Connection to Octopus iPad system with network printers.

EASY AS 1-2-3!

SETTING UP THE ENVIRONMENT

Equipment
- You can use any wireless router with at least 1 Ethernet cable interfaces to connect the printer device together to the router.
- If you are going to use the router only for POS application then router speed rating doesn't need to be very high.
- check the wifi range (distance) before buy the router because iPad needs to be within this range. (Please check with the hardware vendor or more details)
- You will need 1 RJ45 (Ethernet) cables to connect 1 printer to the router.
- To connect to the cash till, you will need a RJ11 interface cable from the cash till to the printer. See above image for clarification.
- If you will like to connect the printer wirelessly instead of using the RJ45, then there are two choices
  - ○ Connect via Apple Airport Express per printer – only works with STAR TSP 654 and STAR TSP 700. EPSON does not support Apple's Airport Express
  - ○ Connect via Blue tooth – Blue Bamboo's PM 25 – However this

means that there will be no trigger for the cash till.

Configuring the Equipment
Always check with your hardware vendor. Mentioned below are basic steps to configure a router.

STEP 1: Configuring wifi router - (by default routers are configured - you may not need to do this step - please check with your vendor) - normally wifi routers are configured as a wifi hotspot with 192.168.1.XXX IP address range.
For example, we will use the following router from TP Link as a simple example.

Setting up the router TL MR 3020
To allow the Octopus iPad Retail Point of Sales to connect to the Printer, the iPad must first be on the same network as the Printer.

We will proceed to setup the router called TL MR3020 and setup a wireless network.

Unbox the router accordingly.

You will notice that there are 3 modes
    i)   3G

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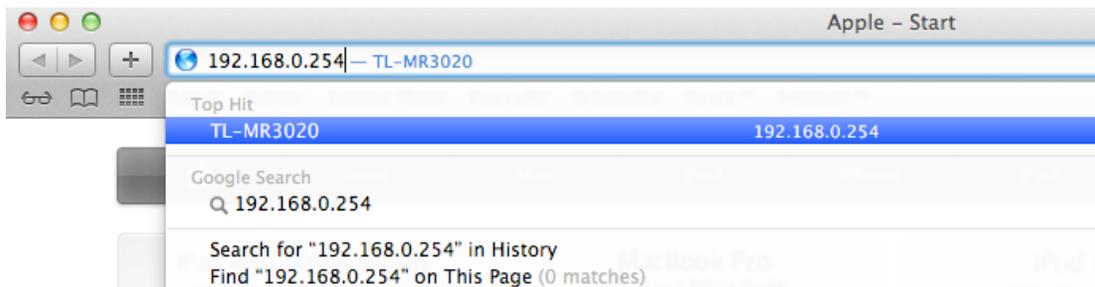
    ii) WISP
   iii) AP

Switch it to WISP mode.

Connect up the router to the power and power accordingly. Immediately, the router will send iut wireless signal.

Use your host computer and open up a browser. Make sure the join the wireless network of TP_LINK_XXXXXX – This should be unsecured network where you can just join. After joining the network, open up your web browser. The default IP of the router is 192.168.0.254

At your browser, at the address field, key in

The login page of the router will appear – the default id and password is admin.

Login accordingly and at the left hand sidebar, click on network -> LAN.

The is where you set the physical IP address of the router to change from the default 192.168.0.254 to something else, say 192.168.1.99

Our suggestion is to change it to something easy to remember.

Click save and the router will reboot automatically.

The advanced steps of setting the router with a different SSID and securing the network can be found in the router's manual.

Step 2: Configure EPSON T88V/STAR TSP 654 / STAR TSP 700 LAN printers to the supported wifi IP address range.

(You may need to change this address if the default address is not within the wifi network range. Note: - By default EPSON printers are configured to 192.168.192.168).
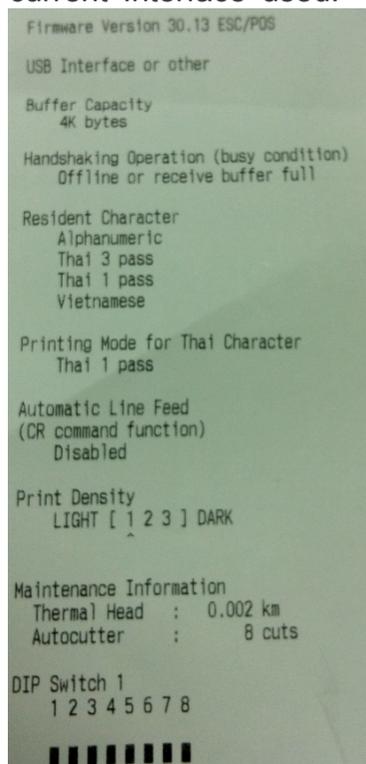
Connect EPSON T88V/STAR TSP 654 / STAR TSP 700 LAN printers to router using RJ45 (Ethernet) cables. See above diagram.

By way of illustration, confiuring Epson TM 88 V LAN printer is as follows:
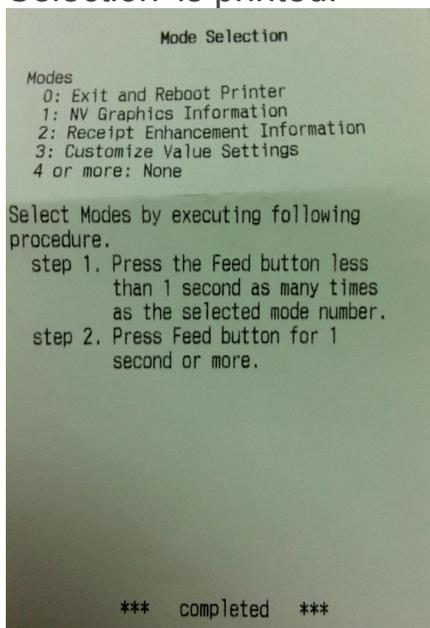
Configuring Epson TM-T88V LAN
Make sure that your iPad is connected to the router via wifi within the correct network and continue with the following steps:

1) Hold the Feed button and Power button on the printer until a configuration sheet prints. The configuration sheet states the 'Firmware Version' and the current 'Interface' used.
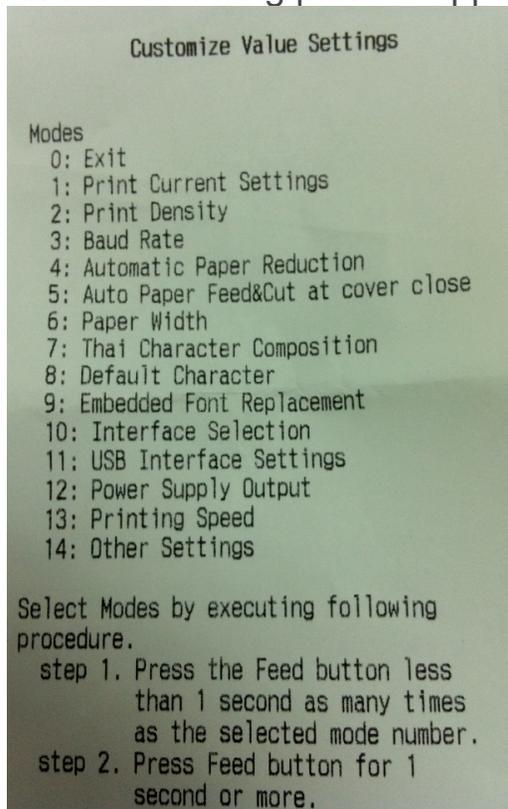
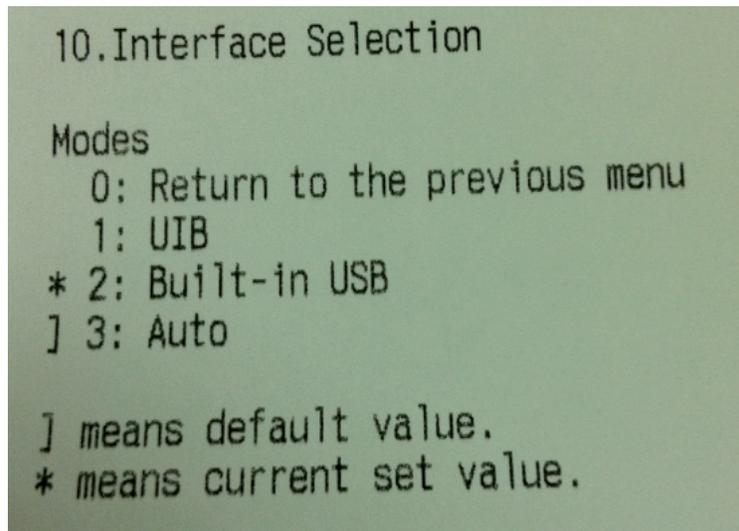2) Again, hold the Feed button until another printout stating the 'Mode Selection' is printed.

3) Press the Feed button 3 times to select 'Customize Value Settings' and the following printout appears.

To select the mode, press the feed button as many times(each depress should be less than 1 second) as the selected mode number and to confirm the selection, press the feed button for 1 or more second(s) to enter the selected mode.

4) Under 'Customize Value Settings', select mode 10: Interface selection.


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10.Interface Selection

Modes
   0: Return to the previous menu
   1: UIB
 * 2: Built-in USB
 ] 3: Auto

] means default value.
 * means current set value.
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5) Under 'Interface Selection', select Mode 1: UIB using the same instructions in Step 3. Upon selection, hold the Feed button to return to the previous menu.

6) Hold the Feed button to exit and Reboot the printer.

7) Repeat step 1 to see confirm the printer configuration.
If you want to change the IP address, connect the printer to a computer using a RJ45 cable (make sure the printer is on UIB mode). Open your preferred browser and key-in the printer's IP address as the web address, you should able to enter the configuration page and adjust the IP by clicking on "TCP/IP".

8) In Octopus™ POS Systems, open System Preferences > Printer Settings,
choose Epson TM-T88V LAN as your printer model, key in the IP address and leave the default port as 9100.

Connect cash till to the EPSON T88V/STAR TSP 654 / STAR TSP 700 printer using RJ11 cable.

Optionally, connect bluetooth scanner with iPad - if needed - (Please refer to scanner user guide for instruction - different models may have different connection methods).

Step 3: Connect iPad to router via wifi that was previously configured.

Add the configured printer IP address and port number (9100 default) and the correct printer model in Octopus™ iPad app accordingly –
(Look at Preferences -> printer settings)

If every thing is configured correctly, then the Octopus™ system should work with the desired printers and cash till. Please check attached diagram above.

FAQ:
What are the compatible printers?
Star TSP 654 / 700 LAN, Epson TM-T88V LAN, Blue Bamboo P25 Bluetooth