Direction of Ethernet Connection

Parameter of Ethernet

Wire & Wireless Parameter

➢ Spec43: Connect mode. 0=Disable; 1=Server Mode; 2=Client Mode (Using in WAN normally).

➢ Spec44: Re-connect interval. **Please keep default.**

➢ Spec45: Re-configuration if parameter changes. **Please keep default.**

➢ Spec150~153: Device IP. If Spec153=0, the device will use DHCP to obtain an IP automatically.

➢ Spec154~157: PC IP. This IP only used in Client Mode(Spec43=2).

➢ Spec158~161: Default gateway.

➢ Spec162~165: Subnet mask.

➢ Spec170~173: Primary DNS.

➢ GlobalText19: Server's Domain Name: Only used in client mode, and Spec154~157 all are "0"

Wireless Only Parameter (Only for device whose integration Wi-Fi)

➢ Spec50: 0=Using Wire-Ethernet; **1=Using Wireless-Ethernet**. (Reboot after you change this parameter)

➢ Spec51: Security Mode: 0=No Security; 1=WEP; 2=WPA/WPA2

➢ Spec53: Domain Type: 0: FCC; 1: IC; 2: ETSI; 3: Spain; 4: France; 5: JapanA; 6: JapanB (**Please keep default if you do not know it**)

➢ GlobalText15: Wi-Fi SSID.

➢ GlobalText16: Wi-Fi Security Password.
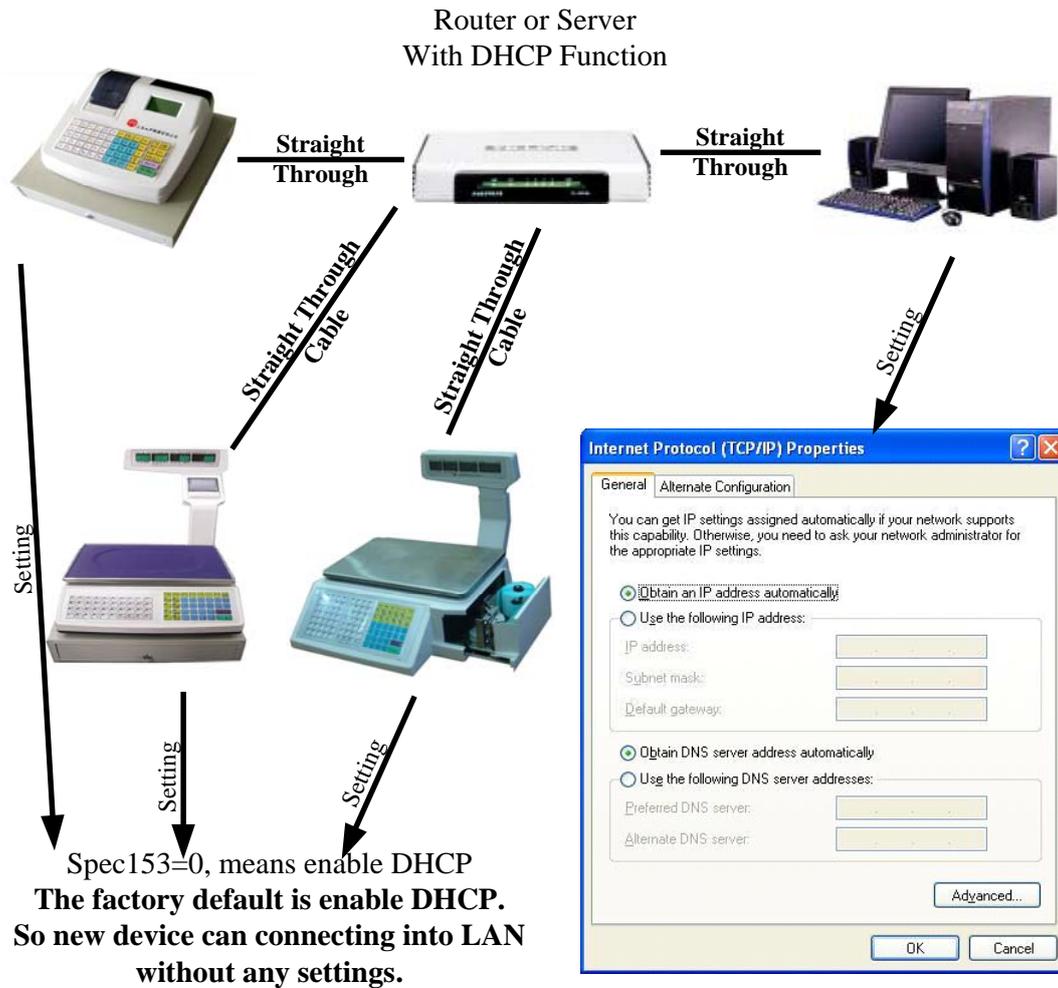
Operation steps of Connecting to Wi-Fi

1. Get a wireless router or AP, set its "Security Mode", "SSID" and "Security Password".

2a. Edit Spec50=1, Spec51="Security Mode", GlobalText15="SSID", GlobalText16="Security Password" in software, and download them by USB-Disk.

2b. Or, Edit Spec50=1, Spec51="Security Mode", GlobalText15="SSID", GlobalText16="Security Password" by device keypad operation. (May a little difficult)

3. Reboot device after Step.2

4. Connecting your PC to Wi-Fi router or AP, open TM-xA software's Etherent Menu.

If you faild to search device in TM-xA software, press keys in order: Prog, 4, 2, Confirm, Confirm. Device will display Wi-Fi link status.

➢ Link Success: Wi-Fi connected.

➢ AP Not Found: Device do not found the AP whose SSID=GlobalText15. Check whether GlobalText15 is correctly.

➢ Link in prog: Try to connect or try to get rssi now.

➢ Failed Join/ Failed Authent/ Failed Associa/ FailedSecurit: Securit not right, check whether GlobalText16 and Spec51 is right.
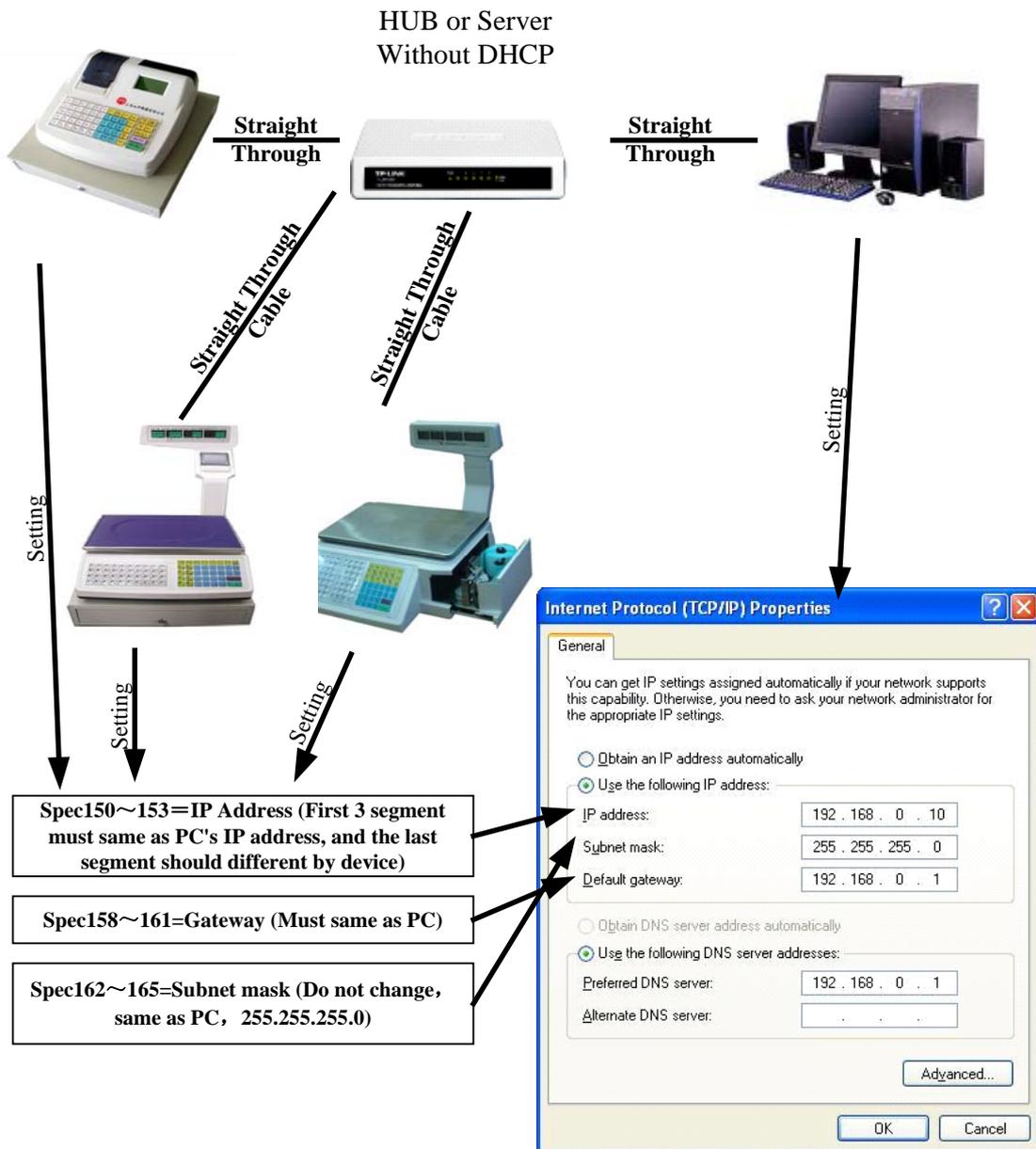
Direction of Ethernet Connection

1. LAN：Using DHCP function to connect

Router or Server
With DHCP Function

**Straight
Through**

**Straight
Through**

**Straight Through
Cable**

**Straight Through
Cable**

Setting

Setting

Setting

Setting

Setting

Spec153=0, means enable DHCP
**The factory default is enable DHCP.
So new device can connecting into LAN
without any settings.**

Internet Protocol (TCP/IP) Properties

General | Alternate Configuration

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

⦿ Obtain an IP address automatically
◯ Use the following IP address:

IP address:
Subnet mask:
Default gateway:

⦿ Obtain DNS server address automatically
◯ Use the following DNS server addresses:

Preferred DNS server:
Alternate DNS server:

Advanced...

OK | Cancel

Direction of Ethernet Connection

2. LAN: Set IP

HUB or Server
Without DHCP

Straight Through

Straight Through

Straight Through Cable

Straight Through Cable

Setting

Setting

Setting

Setting

Spec150～153＝IP Address (First 3 segment must same as PC's IP address, and the last segment should different by device)

Spec158～161=Gateway (Must same as PC)

Spec162～165=Subnet mask (Do not change，same as PC，255.255.255.0)

Internet Protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address:

IP address: 192 . 168 . 0 . 10
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 192 . 168 . 0 . 1

○ Obtain DNS server address automatically
● Use the following DNS server addresses:

Preferred DNS server: 192 . 168 . 0 . 1
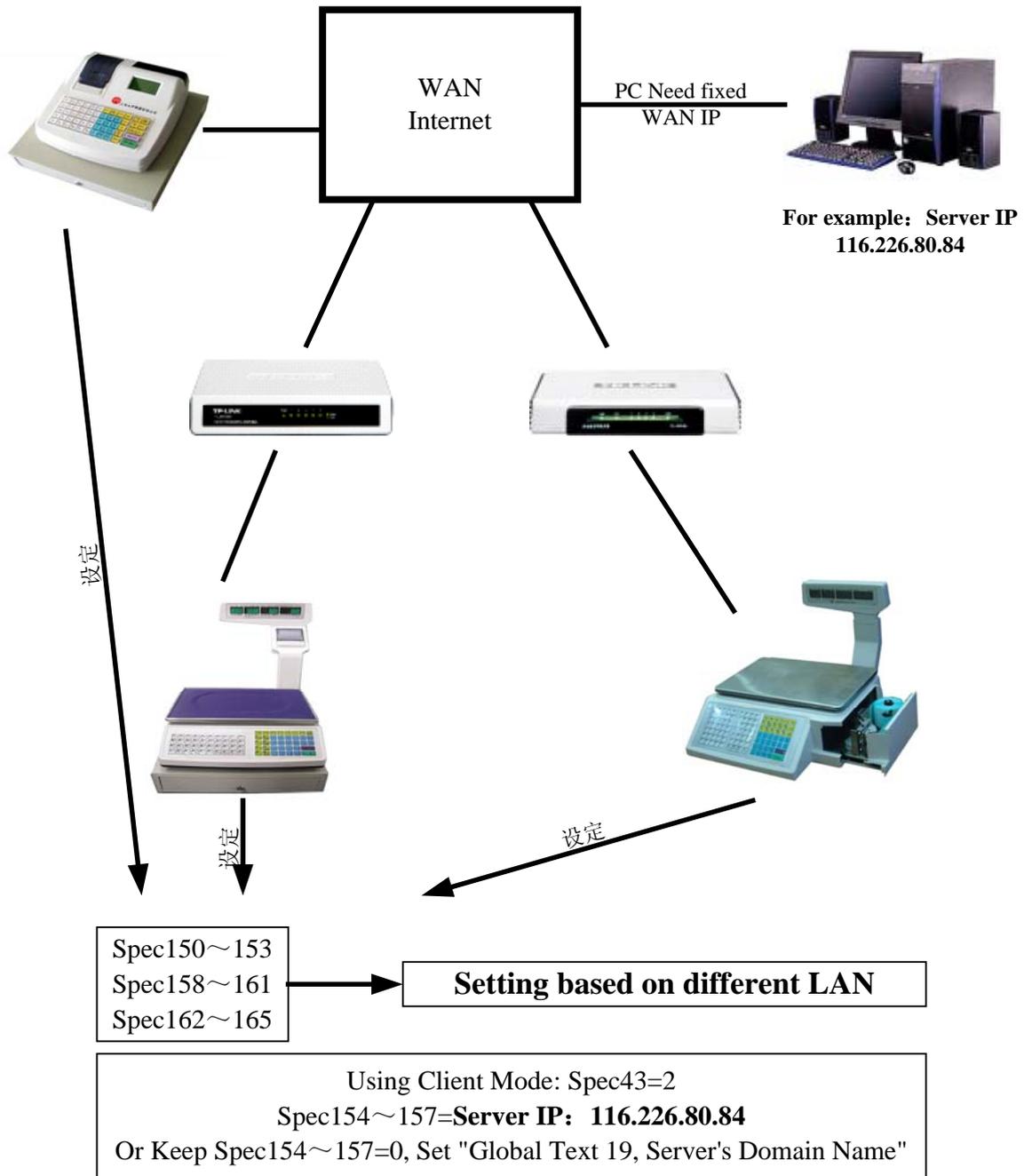Alternate DNS server: . . .

Advanced...

OK   Cancel

Direction of Ethernet Connection

3. Single Device Connection

Crossover Cable

Setting

Setting

Spec150～153＝IP Address (First 3 segment must same as PC's IP address, and the last segment should different by device)

Spec158～161=Gateway (Here set value as PC's IP Address)

Spec162～165=Subnet mask (Do not change，same as PC，255.255.255.0)

Internet Protocol (TCP/IP) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

○ Obtain an IP address automatically
● Use the following IP address:

IP address: 192 . 168 . 0 . 10
Subnet mask: 255 . 255 . 255 . 0
Default gateway: . . .

○ Obtain DNS server address automatically
● Use the following DNS server addresses:

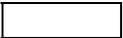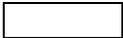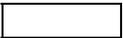Preferred DNS server: . . .
Alternate DNS server: . . .

Advanced...

OK   Cancel

Direction of Ethernet Connection

4. WAN Connection

WAN
Internet

PC Need fixed
WAN IP

For example：Server IP
116.226.80.84

设定

设定

设定

| Spec150～153 |
| Spec158～161 |
| Spec162～165 |

Setting based on different LAN

Using Client Mode: Spec43=2
Spec154～157=**Server IP：116.226.80.84**
Or Keep Spec154～157=0, Set "Global Text 19, Server's Domain Name"

Direction of Ethernet Connection

5. Ethernet Cable

Pin	T568A Pair	T568B Pair	T568A Color	T568B Color	Pins on plug face (Socket is reversed)
1	3	2	white/green stripe	white/orange stripe	
2	3	2	green solid	orange solid	
3	2	3	white/orange stripe	white/green stripe	
4	1	1	blue solid	blue solid	
5	1	1	white/blue stripe	white/blue stripe	
6	2	3	orange solid	green solid	
7	4	4	white/brown stripe	white/brown stripe	
8	4	4	brown solid	brown solid	
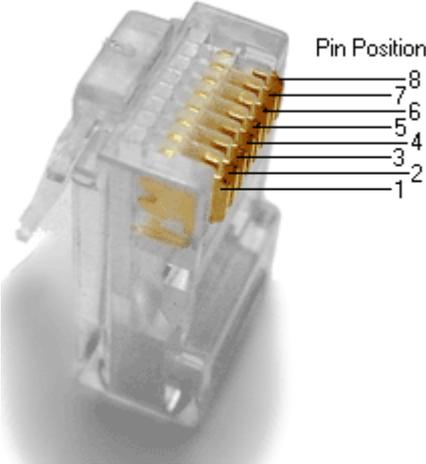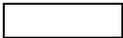
Ethernet Straight Through Cable

T568B   T568B
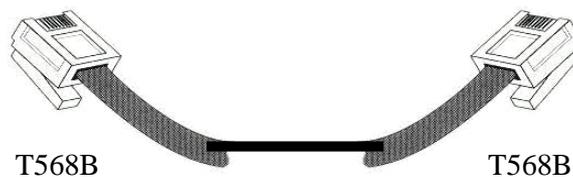
Ethernet Crossover Cable

T568A   T568B