

Instructions for setting up – Modbus TCP Converter (Model: 10051-CCC)





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1. Requirements

Below are the items required for setting up and testing the Modbus TCP converter.

| Part No. | Description | Qty | Comments |
|-----------|--------------------------|-----|----------------------------------|
| 10051-CCC | Modbus TCP Converter | 1 | |
| 10066-CCC | Ethernet Crossover cable | 1 | Part of 10051-CCC |
| | 12VDC Adapter | 1 | Part of 10051-CCC |
| | Computer | 1 | Any computer with Win OS (Win XP |
| | | | or higher) |

2. Download device driver software

Below is the link to download the device driver for Modbus TCP Converter.

http://www.cccusi.com/Images/custDownloads/setup_di_x86x64cd_4.3.0.9.zip



3. Install device driver software

- 3.1 This section assumes that device driver software was downloaded on the computer.
- 3.2 Unzip the driver, open the folder, and then double click "setup_di_x86x64cd_4.3.0.9.exe" to follow the onscreen instructions to install the driver.
- 3.3 If Microsoft .Net Framework (as shown in Fig 3.3.1) is not installed, install the Framework first. Otherwise click "Install" to install the "DeviceInstaller 4.3.0.9".

| 22 | DeviceInstaller Installer – 🗆 🗙 |
|-----------------|---|
| 22 | In order to install DeviceInstaller you must first install these components: Microsoft .NET Framework 4.0 (x86 x64) (Installed) ✓ DeviceInstaller 4.3.0.9 (x64) English |
| | |
| Windows 8 (x64) | Install |

Fig 3.3.1



3.4 In fig 3.4.1, click "Next" to proceed.



Fig 3.4.1

3.5 In fig 3.5.1, click "Next" to accept the default directory.



Fig 3.5.1



3.6 In fig 3.6.1, click "Next" to proceed.



Fig 3.6.1

3.7 If icon is not created on desktop, go to the directory "C:\Program Files\Lantronix\DeviceInstaller4.3\" to create a shortcut.



4. Hardware Connections

Suggested hardware connection is shown below.





5. Configure Modbus TCP Converter

5.1 Once the software is installed, double click the icon "DeviceInstaller" (as shown in Fig 5.1.1) to start the software.



5.2 In fig 5.2.1, once the software started, select "Do not prompt me about this". Then click "No".

| Product Information Base Upo | ate Alert 🛛 💌 | | |
|---|----------------------|--|--|
| Would you like to check for updates to the Product Inform (An Internet connection is needed for updates) | ation Base? | | |
| The Product Information Base has not been updated since installation. | | | |
| ✓ Do not prompt me about this. (Can enable this again | from Tools->Options) | | |
| Yes No | | | |
| | | | |

Fig 5.2.1



5.3 Be sure to set up static IP address of computer by using the instructions shown in Section A.5.4 In File menu, click "Tool>Option" (as shown in Fig 5.4.1) to open the "Option" page.



Fig 5.4.1

5.5 In the "Network" tab of "Option" page (as shown in Fig 5.5.1), select "Ethernet". Then Click "Apply" and then click "Ok" to exit the page.

| : | Opti | ons | | |
|---------------------------------|----------|---------------------------------|----------------------------|--|
| Network Customization | | | | |
| Use the following network adapt | 81 | | | |
| Name | | IP Address | Subnet mask: | |
| Wi-Fi Ø Ethernet | | 192.168.1.83 169.254.121.100 | 255.255.0 255.255.254.0 | |
| | | | | |
| | OK Cance | i Apply | | |

Fig 5.5.1



5.6 If the Modbus TCP Converter is connected according to session 4, then the software will display the found IP address of converter in less than a minute. Note that if the computer's IP does not match with converter's IP, the software will display "unreachable" status.

| 2 | | Lantronix DeviceInstaller 4.3 | .0.9 | | | | x |
|--|---------------|-------------------------------|------------|----------------|-------------------|-------------|---|
| <u>F</u> ile Edit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp | | | | | | | |
| 🔎 Search 🖨 Exclude 🔍 Assign IP | | | | | | | |
| Entronix Devices - 1 device(s) | Name | User Name | User Group | IP Address | Hardware Address | Status | |
| ⊡ | 😪 Unknown(YM) | | | 169.254.127.86 | 00-80-A3-92-99-B9 | Unreachable | |
| | | | | | | | |
| Ready | | | | | | | |



5.7 If the converter is not display, then in File menu, click "Device>Search" (as shown in Fig 5.7.1) to search for the Modbus TCP Converter.



Fig 5.7.1



5.8 Using the procedure in session A, change the first 3 fields of computer's IP and default gateway to match with the Modbus TCP Converter so that the computer can communicate with it. Note: Leave Subnet Mask as "255.255.255.0".

For example:

Before change:

IP address -

| 1 st Field | | 2 nd field | | 3 rd field | | 4 th field |
|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|
| 1 | • | 1 | • | 1 | • | 100 |

Default gateway -

| 1 st Field | | 2 nd field | | 3 rd field | | 4 th field |
|-----------------------|---|-----------------------|---|-----------------------|---|-----------------------|
| 1 | • | 1 | • | 1 | • | 1 |

After change:

IP address -

| 1 st Field | 2 nd field | 3 rd field | 4 th field |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 169 | 254 | 127 | 100 |

Default gateway -

| 1 st Field | 2 nd field | 3 rd field | 4 th field |
|-----------------------|-----------------------|-----------------------|-----------------------|
| 169 | 254 | 127 | 1 |

| nternet Protocol Version 4 (TCI | P/IPv4) 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 automatical | y | | | | | |
| Use the following IP address: | | | | | | |
| IP address: | 1 . 1 . 1 . 100 | | | | | |
| Subnet mask: | 255.255.255.0 | | | | | |
| Default gateway: | 1.1.1.1 | | | | | |
| Obtain DNS server address autom | atically | | | | | |
| Use the following DNS server address | resses: | | | | | |
| Preferred DNS server: | 1 | | | | | |
| Alternate DNS server: | | | | | | |
| Validate settings upon exit | Adyanced | | | | | |
| | OK Cancel | | | | | |
| | | | | | | |

| Internet Protocol Version 4 (TC | P/IPv4) 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. | | | | | |
| O Obtain an IP address automatical | ly | | | | |
| Uge the following IP address: | | | | | |
| IP address: | 169 . 254 . 127 . 100 | | | | |
| Sybnet mask: | 255.255.255.0 | | | | |
| Default gateway: | 169 . 254 . 127 . 1 | | | | |
| Obtain DNS server address autor | natically | | | | |
| Use the following DNS server add | resses: | | | | |
| Preferred DNS server: | | | | | |
| Alternate DNS server: | | | | | |
| Vajidate settings upon exit | Ad <u>v</u> anced | | | | |
| | OK Cancel | | | | |



5.9 Once step 5.8 is done, exit the software and then restart again. In a few seconds, the software will display the device being online. See fig 5.9.1.

| Lantronix DeviceInstaller 4.3.0.9 | | | | | | | | | | | | | |
|--|----------------|-----------|------------|----------------|-------------------|--------|----|--|--|--|--|--|--|
| <u>F</u> ile Edit <u>V</u> iew <u>D</u> evice <u>T</u> ools <u>H</u> elp Pearch 🖨 Exclude 🗞 Assign IP | | | | | | | | | | | | | |
| Entronix Devices - 1 device(s) | Name | User Name | User Group | IP Address | Hardware Address | Status | | | | | | | |
| Erreme (165,234,127,100) ⊕Unknown | Se Unknown(YM) | | | 169.254.127.86 | 00-80-A3-92-99-B9 | Online | | | | | | | |
| Ready | | | | | | | .: | | | | | | |

Fig 5.9.1



6. Configure serial communication settings

This session shows the steps to configure the Modbus TCP converter so that serial communication settings match with the slave device.

6.1 In the "DeviceInstaller" software, expand the cross (in the left pane) as shown in Fig 6.1.1.



Fig 6.1.1

6.2 In Fig 6.2.1.Click "Telnet Configuration" tab, then click "Connect".

| 2 | Lantronix DeviceInstaller 4.3.0.9 | - 🗆 🗙 |
|---|---|-------|
| File Edit View Device Tools Help → Search ← Exclude ← Assign IP ← Upgrade → ● Lantronix Devices - 1 device(s) | Device Details Web Configuration Teiner Configuration | |
| ∰ Ethemet (169,254.127.100) | IP Address: 169.254.127.86 Port: 9999 Connect Clear | ~ |
| 🗹 Ready | | .: |

T

Fig 6.2.1



6.3 As shown in fig 6.3.1, press the enter key.



Fig 6.3.1

6.4 As shown in fig 6.4.1, enter '2' to select "Serial & Mode Settings".



Fig 6.4.1



6.5 As shown in fig 6.5.1, enter '1' to select "Slave" device.

| | Lantronix DeviceInstaller 4.3.0.9 | |
|---|---|--|
| Ele Edit View Device Tools Help | | |
| 🔎 Search 😄 Exclude 🔌 Assign 19 😌 Upgrad | • | |
| E B Lantronix Devices - 1 device(s) | Device Details Web Configuration Teinet Configuration | |
| Ethernet (169.254.127.100) | IP Address 169.254.127.86 Port: 9999 Closonnect Clear | |
| | Padame NURSAU/200 The NUMB Photomet NURSAU/200 The NUMB Photomet NURSAU/200 The NUMB Photomet NUMB Photomet Number Num | |

Fig 6.5.1

6.6 As shown in fig 6.6.1, enter '1' to select "Modbus/RTU" protocol.



Fig 6.6.1



6.7 As shown in fig 6.7.1, enter (9600, 8, N, 2) to imply "Baud rate = 9600, Databit = 8, Parity = None, Stop bit = 2".



Fig 6.7.1

6.8 As shown in fig 6.8.1, enter 'S' or 's' to save the changes. Then click "Connect" to verify the changes.

| | Lantronix DeviceInstaller 43.0.9 | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|
| View Device Iools Help | | | | | | | | | | |
| 🌢 Esclude 🔹 Assign IP 🔮 Upgrade | | | | | | | | | | |
| tx Devices - 1 device(x) emet (159 254 127 100 | Device Details Web Configuration Tehnet Configuration | | | | | | | | | |
| Unknown | P Address: 169.254.527.86 Port: 9999 Sconnect & Cear | | | | | | | | | |
| 2 United with the second state of the second | Jaiot Commant of parameter set [] to to change Extended Device ("Eligan 2-descent") () ? 1 Sexial Province) (1+Monday/2007 2-Mondaw/20071) () ? 1 Interface 1-SetS 2/4-412 Enter sexial parameterse (MOD,S,S,1) 9000,S,S,2 | | | | | | | | | |
| -2 BAUR | <pre>minuter(T = ATU Strings Percey) Stronger J = ATU Strings Percey Pe</pre> | | | | | | | | | |
| | Telest Serg | | | | | | | | | |

Fig 6.8.1



6.9 As shown in fig 6.9.1, verify the communication settings as "Baud rate = 9600, Databit = 8, Parity = None, Stop bit = 2".

| 9 | Lantronix DeviceInstaller 43.0.9 – 🗆 🗙 |
|---|---|
| File Edit View Device Tools Help | |
| Dearch General Loop Assign IP Output Assign IP OutputA | |
| Lantronix Devices - 1 device(s) | Device Details Web Configuration Telnet Configuration |
| | IP Address: 169.254.127.86 Port: 9999 🔌 Disconnect 🞸 Clear |
| i - ge Ukroom(?M)- firmvære v3.3.0.1GC - ge Ukroom(?M)- firmvære v3.3.0.1GC - ge 169.254.127.86 | Modbus/TCP to RTU Bridge NAC address 00803829383 Software version V3.3.0.GC (131217) XFTEXE Press Enter for Setup Mode Model: Device Server Flus+! (Firmware Code:YM) Modbus/TCP to RTU Bridge Setup 1) Network/TP Settings: 10 Network/TP Settings: 11 Netmark |
| 🗹 Ready | |

Fig 6.9.1



6.10 In file menu, press 'F4" or click "Tools > Ping ...".





6.11 Enter the IP address (e.g. 169.254.127.86) of the converter, then click "Ping".

| <i>i</i> | Ping Device | | × |
|-------------------------------|-------------|------|--------------|
| IP Address: 169.254.127.86 | | Ping | Clear Status |
| Status: | | | |
| | | | ^ |
| < | | | × . |
| | | | Close |





6.12 If the converter responses, it will display 4 lines of message as shown in Fig 6.12.1

| Ping | Device | × |
|--|--|---|
| | | |
| | Ping | g Clear Status |
| | | |
| 154, 127, 86: bytes=32 time=0m 154, 127, 86: bytes=32 time=0m 154, 127, 86: bytes=32 time=0m 154, 127, 86: bytes=32 time=0m | S S S | ^ |
| | | × × |
| | | Close |
| | Ping 254.127.86: bytes=32 time=0m 254.127.86: bytes=32 time=0m 254.127.86: bytes=32 time=0m 254.127.86: bytes=32 time=0m | Ping Device 254.127.86: bytes=32 time=0ms 254.127.86: bytes=32 time=0ms 254.127.86: bytes=32 time=0ms 254.127.86: bytes=32 time=0ms |

Fig 6.12.1



7. Verify Connectivity with Slave Device

This session assumes that user had already verified the communication with slave device using USB-to-serial cable.

7.1 Open Modscan software. In the file menu, click "Connection > Connect".

| ••• | | | | | | | | | | | | | ModS | can32 - M | ModSca | a1 | | | | - 🗆 🗙 |
|------|------------------|-------------------|---------------------|------------------|---------|--------------|------------|-------------------------|------------|-----------------|------------|--------------|------------|--------------|--------|--------------|------------|---|---------|----------|
| File | Connec | tion Setu | up View | Window | Help | | | | | | | | | | | | | | | |
| | Co | onnect | | 3 | 2 | | | | | | | | | | | | | | | |
| | | sconnect | | | | | | | | | | | | | | | | | | |
| | A | no-Start | . , | | | | | | | | Mod | Sca1 | | | | | | | 1 | |
| ľ | Q | JICKLONNE | α | Device | ld: | 1 | | | | | mou | 5001 | | | | | | | | |
| A | ddress: | 0001 | | MODBU | JS Poin | t Type | | Number of Valid Slav | of Polls | s: O sponses | 0 | | | | | | | | | |
| ιL | ength: | 100 | 01: | COIL ST | ATUS | | ٠ | | | Reset | Ctrs | | | | | | | | | |
| н. | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 00 | Data 001: < | 0niniti 0> 000 | alized • 13: <0> | 00025: | <0> | 00037: | <0> | 00049: | <0> | 00061: | <0> | 00073: | <0> | 00085: | <0> | 00097: | <0> | | | |
| 00 | 002: < 003: < | 0> 000 0> 000 | 14: <0> 15: <0> | 00026:00027: | <0><0> | 00038:00039: | <0> <0> | 00050:00051: | <0> <0> | 00062:00063: | <0> <0> | 00074:00075: | <0><0> | 00086:00087: | <0><0> | 00098:00099: | <0> <0> | | | |
| 00 | 004: < 005: < | 0> 000 0> 000 | 16: <0> 17: <0> | 00028: | <0><0> | 00040:00041: | <0> | 00052: 00053: | <0><0> | 00064:00065: | <0><0> | 00076: | <0><0> | 00088: | <0><0> | 00100: | < 0 > | | | |
| 00 | 006: < 007: < | 0> 000 0> 000 | 18: <0> 19: <0> | 00030: 00031: | <0><0> | 00042:00043: | <0> <0> | 00054:00055: | <0> <0> | 00066:00067: | <0> <0> | 00078:00079: | <0><0> | 00090:00091: | <0><0> | | | | | |
| 00 | 008: < 009: < | 0> 000 0> 000 | 20: <0> 21: <0> | 00032: | <0><0> | 00044:00045: | <0> | 00056: | <0> <0> | 00068: | <0> | 00080: | <0> <0> | 00092: | <0><0> | | | | | |
| 00 | 010: < 011: < | 0> 000 0> 000 | 22: <0> 23: <0> | 00034 | <0><0> | 00046:00047: | <0> <0> | 00058:00059: | <0> <0> | 00070:00071: | <0> <0> | 00082: | <0> <0> | 00094:00095: | <0><0> | | | | | |
| | 012: < | 0> 000 | 24: <0> | 00036: | <0> | 00048: | <0> | 00060: | <0> | 00072: | <0> | 00084: | < 0 > | 00096: | <0> | | | 2 | | |
| Ŀ | _ | | | | _ | | - | | _ | | _ | | _ | | _ | | _ | | _ | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | olle: 0 | Report 0 |

Fig 7.1.1



7.2 In the "Connect Using" field of "Connection Details" page, select "Remote Modbus TCP Server".

| | ModScan32 - ModSca1 | * |
|--|--|-------------------|
| e Connection Setup View Window Help | | |
| S = = = = = = = = = = = = = = = = = = = | | |
| | | |
| | ModScal | |
| Device Id: 1 | House | |
| Address: 0001 MODBUS Point Type Va | imber of Polls: 0 Ilid Slave Responses: 0 | |
| Length: 100 01: COIL STATUS | Connection Details | |
| | Connect Union | |
| | Famola moduut CP Server | |
| | Rende modeunICP Server | |
| | AgieVPN DAC DPD-E Line | |
| | Configuration WAN Miniport (L2TP) | |
| Device NOT CONNECTED: ** | Print Prisonale non conso. | |
| 0001: <0> 00013: <0> 00025: <0> 00037: <0> 0 0002: <0> 00014: <0> 00026: <0> 00038: <0> 0 | 10049: Deconstre. The second s | |
| 0003: <0> 00015: <0> 00027: <0> 00039: <0> 0 0004: <0> 00016: <0> 00028: <0> 00040: <0> 0 | 10051: Word Lengm: a Delay 0 ms after RTS before haromiting first character | |
| 0005: <0> 00017: <0> 00029: <0> 00041: <0> 0 0006: <0> 00018: <0> 00030: <0> 00042: <0> 0 | 10053: Parky: NONE Vait for CTS from slave | |
| 0007: <0> 00019: <0> 00031: <0> 00043: <0> 0 0008: <0> 00020: <0> 00032: <0> 00044: <0> 0 | 10055: Delay 0 ms after lost character 10056: Stop Bit: 1 v Delay 0 before releasing RTS | |
| 0009: <0> 00021: <0> 00033: <0> 00045: <0> 0 0010: <0> 00022: <0> 00034: <0> 00046: <0> 0 | 10057: | |
| 0011: <0> 00023: <0> 00035: <0> 00047: <0> 0 0012: <0> 00024: <0> 00036: <0> 00048: <0> 0 | 10059 : 10060 : Protocol Selections | |
| | OK Cancel | > |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Help, press F1 | | Polls: 0 Resps: 0 |

Fig 7.2.1

7.3 Enter IP address of the Modbus TCP Converter. Leave Service Port (502) unchanged. Then click "OK".

| | Connection Details | | | | | | | | |
|-----------------------|---|--|--|--|--|--|--|--|--|
| Connect U | sing: | | | | | | | | |
| | Remote modbus1CP Server | | | | | | | | |
| | IP Address: [169.254.127.86] | | | | | | | | |
| Configuration - | Service Port: 502 | | | | | | | | |
| Baud Rate: | Hardware Flow Control | | | | | | | | |
| Word Length: | 8 Ventro Dorman aver Delay 0 ms after RTS before transmitting first character | | | | | | | | |
| Parity: Stop Bite: | NUNE Valid for CTS from slave Delay 0 ms after last character to for content or DTC | | | | | | | | |
| 5100 510 | Derore releasing h 1 5 | | | | | | | | |
| Protocol Selections | | | | | | | | | |
| OK Cancel | | | | | | | | | |
| | | | | | | | | | |

<u>Fig 7.3.1</u>



7.4 Enter the fields of interest (Address: 0001, Length: 100, Device Id: 1, Modbus Point Type: 03 – Holding Register). Verify "Number of Polls" and "Valid Slave Responses" match to denote Modbus TCP communication is successful.

| 5 | ModScan32 - ModS | ca1 | - 🗆 🗙 |
|--|--|--|--|
| <u>File Connection Setup View Window Help</u> | | | |
| | | | |
| | | | |
| - | ModSca1 | | |
| Address: 0001 Device Id: 1 MODBUS Point Type Length: 100 03: HOLDING BEGISTER | Number of Polls: 129 Valid Slave Responses: 129 | | |
| | Heset Utrs | | |
| | | | |
| | | | |
| 40001: <00192> 40013: <00599> 40025: <00193; 40002: <00002> 40014: <00000> 40026: <00000; 40003: <00128> 40015: <00599> 40027: <00000; | 40037: <01800> 40049: <00025> 4006 40038: <00010> 40050: <00040> 4006 40039: <00000> 40051: <00002> 4006 | 1: <00000> 40073: <00201> 40085: <00000> 2: <00000> 40074: <00000> 40086: <00000> 3: <05122> 40075: <00000> 40087: <00000> | 40097: <00002> 40098: <00015> 40099: <00003> |
| 40004: <01283> 40016: <00000> 40028: <00192; 40005: <00000> 40017: <00063> 40029: <00000; 40006: <00120> 40018: <00000> 40030: <00000; 40007: <000000> 40019: <00023> 40031: <33388 | 40040: <00300> 40052: <00000> 4006 40041: <00090> 40053: <00047> 4006 40042: <00080> 40054: <00000> 4006 40043: <00090> 40055: <00033> 4006 | 4: <00000> 40076: <00000> 40088: <00000> 5: <00000> 40077: <00009> 40089: <00000> 5: <00000> 40078: <00000> 40090: <00000> 7: <00000> 40079: <00000> 40091: <00090> | 40100: <00000> |
| 40008: <00000> 40020: <64130> 40032: <33338 40009: <00120> 40021: <00120> 40033: <01000 40010: <00000> 40022: <00064> 40034: <00005 | 40044: <00080> 40056: <00000> 4006 40045: <00000> 40057: <00000> 4006 40046: <00095> 40058: <00000> 4007 | 3: <00008> 40080: <00000> 40092: <00000> 9: <01782> 40081: <00000> 40093: <00000> 0: <00000> 40082: <00000> 40094: <00010> | |
| 40011: <00000> 40023: <00000> 40035: <00010; 40012: <00000> 40024: <00132> 40036: <00000; | 40047: <00000> 40059: <00000> 40048: <00000> 40060: <00000> 4007 | L: <00000> 40083: <00000> 40095: <00023> 2: <00062> 40084: <00000> 40096: <00010> | |
| | | | > |
| For Help, press F1 | | | Polls: 129 Resps: 129 |

<u>Fig 7.4.1</u>



8. Change IP address

8.1 To change the IP address and Subnet Mask of the Modbus TCP Converter, click "Device > Assign IP Address".

| 22 | Lantronix DeviceInstaller 4.3.0.9 | | | | | | | | | | | |
|--|--|----------------|--|-----------|------------|------------------------------|---------------------------------------|------------------|--|--|--|--|
| File Edit View Search Exclude Lartonic Device Bhenet (165 Unknow | Device Tools Help Search Add Device Assign IP Address Upgrade Exclude Devices Form Search Resul | F5 F6 F7 | | User Name | User Group | IP Address 169.254.127.86 | Hardware Address 00-80-A3-92-99-89 | Status Online | | | | |
| Ready | | | | | | | | | | | | |

Fig 8.1.1

8.2 Select "Assign a specific IP address", then click Next.



Fig 8.2.1



8.3 Enter the IP address, Subnet Mask, and Default gateway, then click Next.

Fig 8.3.1

8.4 Click "Assign".



Fig 8.4.1



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8.5 Click "Finish".

| 8 | Assign IP Address | × |
|---|---|---|
| | Assignment Click the Assign button to complete the IP address assignment. Progress of task: | |
| | Completed successfully. | |

Fig 8.5.1

8.6 Note that every time the IP address is changed, the converter will default the serial communication settings to (9600, 8, N, 1). To change the com settings different from the converter default, repeat session 6.



A. Setup Static IP Address

Below are the steps to setup static IP address in the computer so that one can use a cross over RJ45 cable to communicate directly with the Modbus TCP Converter.

- A1. Open network page and select Ethernet connection.
- A2. As shown in Fig A2.1, click "Properties".



Fig A2.1



A3. Highlight "Internet Protocol Version 4 (TCP/IPv4), then click "Properties".



Fig A3.1

A4. Set the IP address of the computer as "1.1.1.100" (as shown in Fig A4.1) since we don't know the IP address of the Modbus TCP Converter at first . Then click "Ok", "Ok", and "Close" to exit the "Ethernet Status" page.

| Internet Protocol Version 4 (TC | P/IPv4) 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. | | | |
| O Obtain an IP address automatically | | | |
| • Use the following IP address: | | | |
| IP address: | 1 . 1 . 1 .100 | | |
| Subnet mask: | 255.255.255.0 | | |
| Default gateway: | 1.1.1.1 | | |
| Obtain DNS server address automatically | | | |
| Use the following DNS server addresses: | | | |
| Preferred DNS server: | 1 · · · | | |
| Alternate DNS server: | | | |
| Validate settings upon exit Advanced | | | |
| OK Cancel | | | |
| | | | |

Fig A4.1