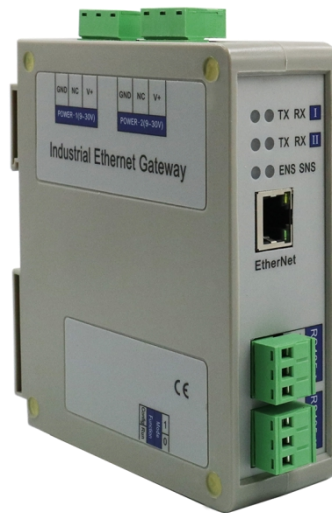


Technical Note

Upgrade to GT200-EI-2RS485 (Modbus TCP)

V 2.3



SST Automation

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1 Overview

1.1 Introduction

Through this technical note, you can upgrade the EtherNet/IP function to Modbus TCP function and realize the conversion between Modbus TCP Masters/Slaves and Modbus RTU/ASCII Slaves/Master.

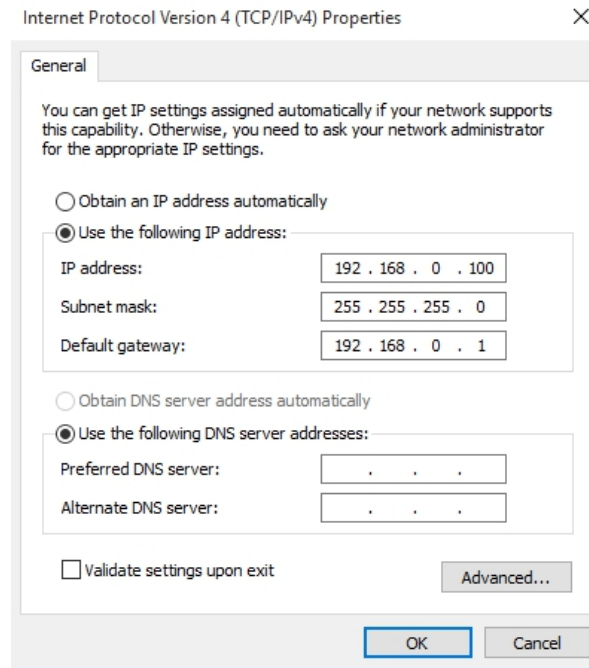
The user manual, configuration software and more documentation can be found and downloaded at www.sstcomm.com.

1.2 Revision History

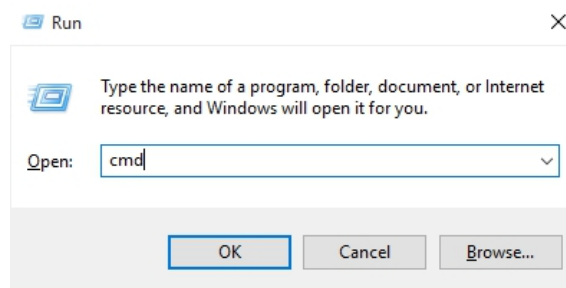
Revision	Date	Chapter	Description
V2.3	5/6/2021	ALL	New release

2 How to Upgrade to Modbus TCP

1. Connect to the gateway with your computer through wired RJ 45 cable. Make sure your IP address of local network adapter is set to 192.168.0.XXX (not 192.168.0.10), network mask is 255.255.255.0. Gateway address is 192.168.0.1.



2. Turn the DIP switch to 1ON and 2OFF, power off and power on to enter FTP state. At this time, the orange lights of ENS and SNS is flashing alternately;
3. Click WIN+R, input cmd and use PING 192.168.0.10 in the cmd window. Make sure the PING is successful.



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.10240]
(c) 2015 Microsoft Corporation. All rights reserved.

C:\Users\Miller>PING 192.168.0.10

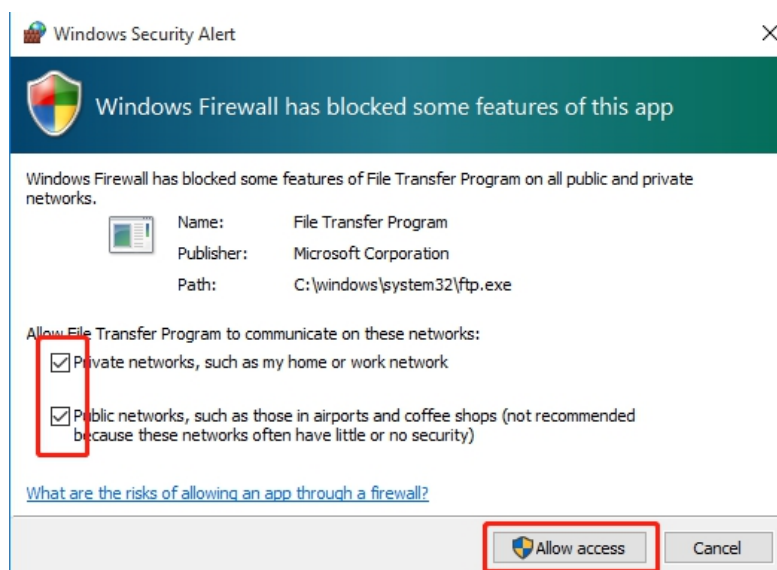
Pinging 192.168.0.10 with 32 bytes of data:
Reply from 192.168.0.10: bytes=32 time=3ms TTL=128
Reply from 192.168.0.10: bytes=32 time=1ms TTL=128
Reply from 192.168.0.10: bytes=32 time=1ms TTL=128
Reply from 192.168.0.10: bytes=32 time=1ms TTL=128

Ping statistics for 192.168.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 1ms, Maximum = 3ms, Average = 1ms

C:\Users\Miller>
```

- Unzip the “Upgrade_to_Modbus_TCP_Function.zip”, double click the “FtpFwUpdate.bat” file in the folder.

Check the private networks and public network checkbox, and click “Allow access”.



```
C:\Windows\system32\cmd.exe
ftp> open 192.168.0.10
Connected to 192.168.0.10.
220 SiboTechFTP Server 1.0 ready.
502 Command not implemented.
User (192.168.0.10:(none)):
331 User user OK, send password.

230 Password OK.
ftp> bin
200 Type set to I.
ftp> put image.bin
200 PORT command Ok.
150 About to open data connection.
```

- When it shows the following sentences, that means the upgrade process is normal.

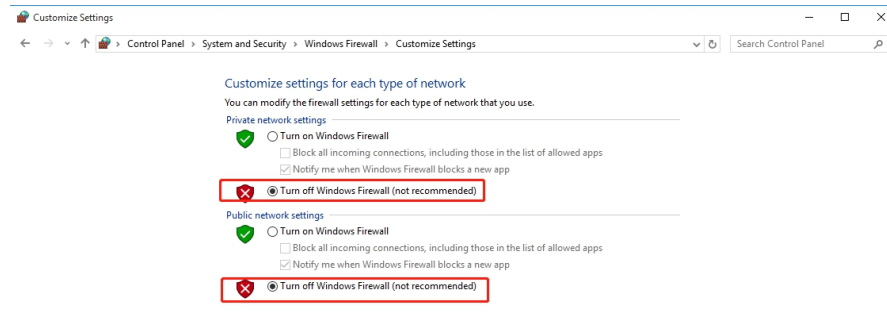
Please don't power off the gateway now.

It will take about 2 minutes to wait for the program to be upgraded. When the below red

marked sentences appear, that means the upgrade process is successful. Please don't power off the gateway now.

When the below red marked sentences does not appear more than 5 minutes. Please do the following steps to fix the issue.

- (1) please shut down the cmd window.
- (2) You can turn off the windows firewall temporarily.



- (3) Double click the FtpFwUpdate.bat file to do the upgrade again.

6. When the device restarts automatically, it means that the upgrade process is completed.

```
C:\Windows\system32\cmd.exe
ftp> open 192.168.0.10
Connected to 192.168.0.10.
220 SiboTechFTP Server 1.0 ready.
502 Command not implemented.
User (192.168.0.10:(none)):
331 User user OK, send password.

230 Password OK.
ftp> bin
200 Type set to I.
ftp> put image.bin
200 PORT command OK.
150 About to open data connection.
226 Transfer complete
ftp: 668620 bytes sent in 2.88Seconds 232.48Kbytes/sec.
ftp> quit
221 Goodbye.
please wait for the device reset, it needs 2 minutes. Don't power off in the time.
Press any key to continue . . .
```

When showing “Press any key to continue...”, the upgrade is finished.

Now, you can power off the gateway and set DIP switch to 1OFF and 2OFF. Use SST-MT-CFG to configure the GT200-EI-2RS485 (Modbus TCP).

3 Configuration

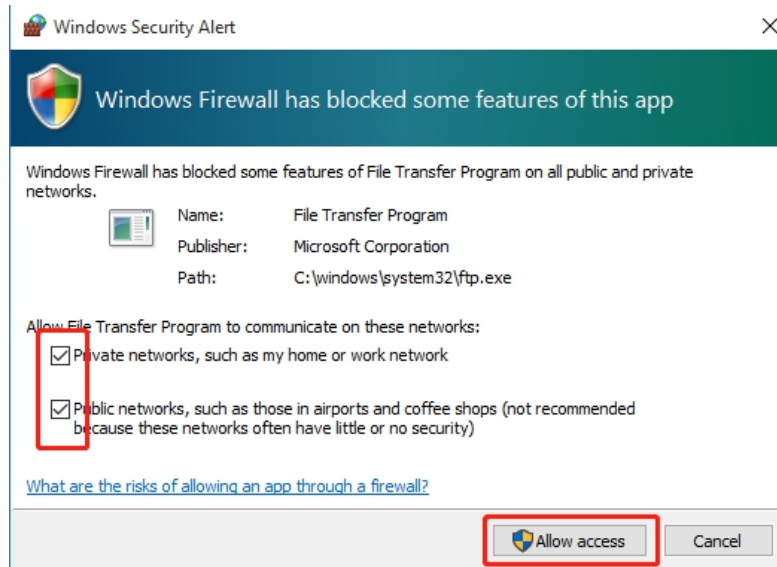
Turn DIP switch to 1OFF and 2OFF to start configuring the GT200-EI-2RS485 (Modbus TCP) NOW.

To configure the GT200-EI-2RS485 (Modbus TCP), please download the SST-MT-CFG configuration software on <https://www.sstcomm.com/Download1/>.

4 Restore to EtherNet/IP

1. Do the same from Step 1 to Step 3 on Chapter 2.
2. Unzip the “Restore_to_EtherNet_IP_Function.zip”, double click the FtpFwUpdate.bat file in the folder.

Check the private networks and public network checkbox, and click “Allow access”.



```
C:\Windows\system32\cmd.exe
ftp> open 192.168.0.10
Connected to 192.168.0.10.
220 SiboTechFTP Server 1.0 ready.
502 Command not implemented.
User (192.168.0.10:(none)):
331 User user OK, send password.

230 Password OK.
ftp> bin
200 Type set to I.
ftp> put image.bin
200 PORT command Ok.
150 About to open data connection.
```

3. When it shows the following sentences, that means the upgrade process is normal.

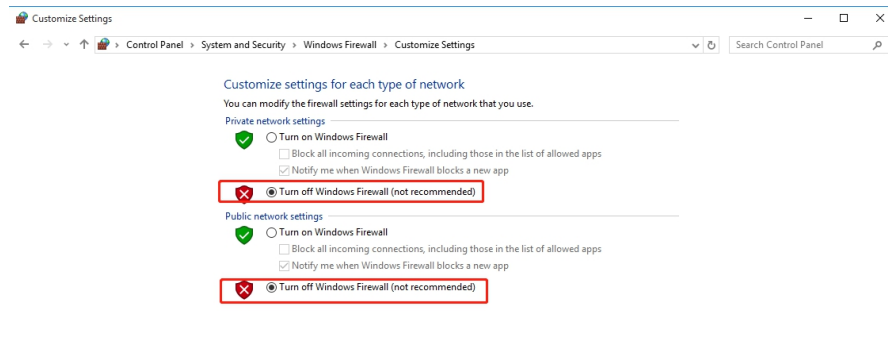
Please don't power off the gateway now.

It will take about 2 minutes to wait for the program to be upgraded. When the below red marked sentences appear, that mean the upgrade process is successful. Please don't power off the gateway now.

When the below red marked sentences does not appear more than 5 minutes. Please do the following steps to fix the issue.

- (1) Please shut down the cmd window.

(2) You can turn off the windows firewall temporarily.



(3) Double click the FtpFwUpdate.bat file to do the upgrade again.

4. When the device restarts automatically, it means that the upgrade process is completed.

```
C:\Windows\system32\cmd.exe
ftp> open 192.168.0.10
Connected to 192.168.0.10.
220 SiboTechFTP Server 1.0 ready.
502 Command not implemented.
User (192.168.0.10:(none)):
331 User user OK, send password.

230 Password OK.
ftp> bin
200 Type set to I.
ftp> put image.bin
200 PORT command Ok.
150 About to open data connection.
226 Transfer complete
ftp: 668620 bytes sent in 2.88Seconds 232.48Kbytes/sec.
ftp> quit
221 Goodbye.
please wait for the device reset, it needs 2 minutes. Don't power off in the time.
Press any key to continue . . .
```

When showing “Press any key to continue...”, the upgrade is finished.

Now, you can power off the gateway and set DIP switch to 1OFF and 2OFF. Use SST-GT-CFG to configure the GT200-EI-2RS485.