Remote TCP/IP communication with the FLEXTC pointing compiled EXE file:

1) Download and install Microsoft .net framework 4.0 .
   Use the following link:
   http://www.microsoft.com/en-us/download/details.aspx?id=17851
2) Extract the Release.zip file.
   Unzip it to a local hard drive computer.

Release.zip
106 KB

3) Make sure you have all the following unzipped files:
   a) MechanicalDevices.exe
   b) MechanicalDevices.pdb
   c) MechanicalDevices.vshost.exe
   d) Unitronics.ComDriver.dll
   e) MechanicalDevices.vshost.exe.manifest
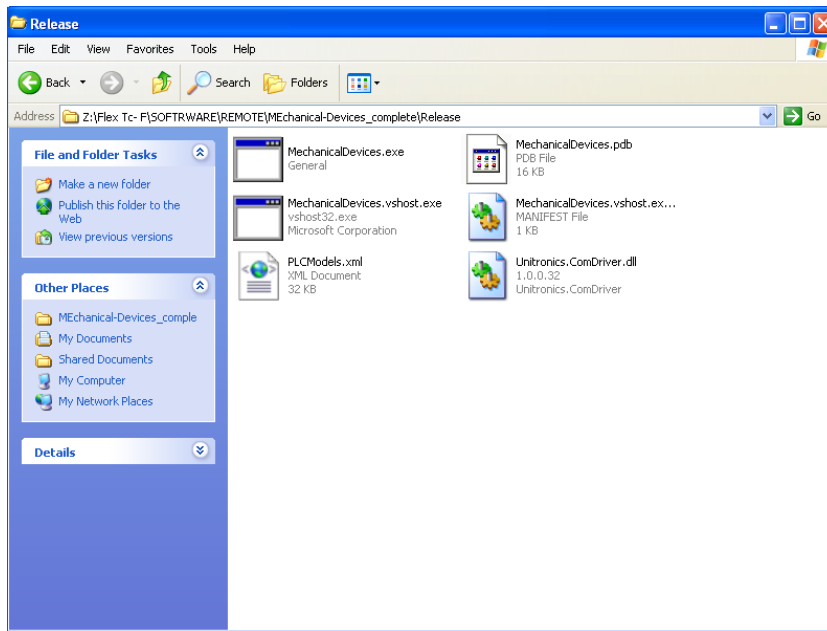
4) Turn on the FLEXTC unit. Make sure you connect the Ethernet cable from your network server / or /personal computer to the FlexTC.
5) If you use direct Ethernet connection from the desktop to the FlexTC, you need to change the computer network connection.
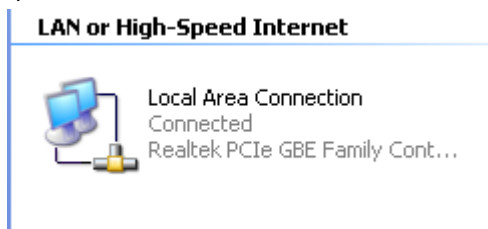
For WIN XP do the following changes:
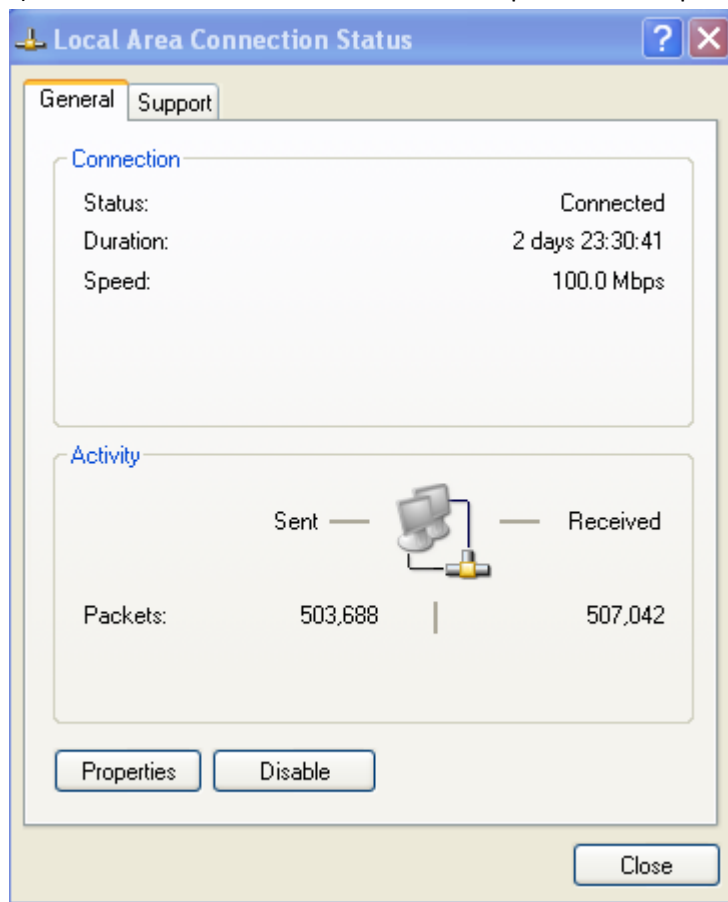
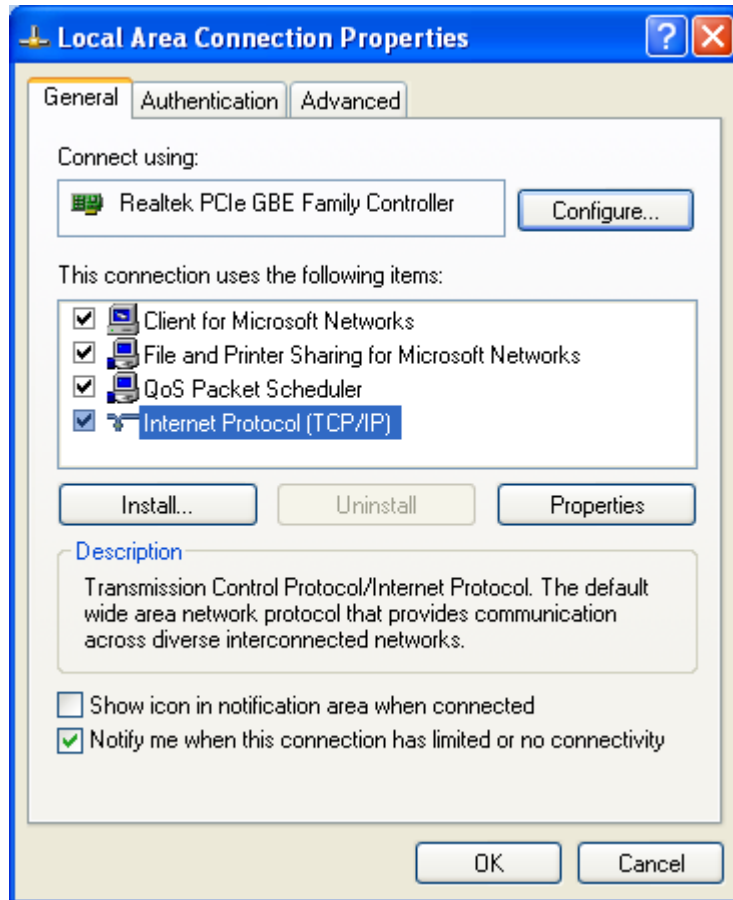a)Go to "My computer" and press the "Control Panel" Icon.

Other Places

- My Network Places
- My Documents
- Shared Documents
- Control Panel

b) Press the "Network Connections" icon.

Network
Connections

c) Double Click the "Local Are Connection" Icon.

LAN or High-Speed Internet

Local Area Connection
Connected
Realtek PCIe GBE Family Cont...

d) On "Local Area Connections" sub menu press the "Properties" icon.

Local Area Connection Status   ? X

General | Support

Connection
Status: Connected
Duration: 2 days 23:30:41
Speed: 100.0 Mbps

Activity

Sent —   — Received

Packets: 503,688 | 507,042

[Properties] [Disable]

[Close]

f) On the "Internet Protocol" press on Properties icon.

g) Use Static address for this computer. Make sure the last IP character will defer from the static IP on the machine.
For Example Computer Static IP is : 10.100.102.1 when the FlexTC
Static I.P is : 10.100.102.17.
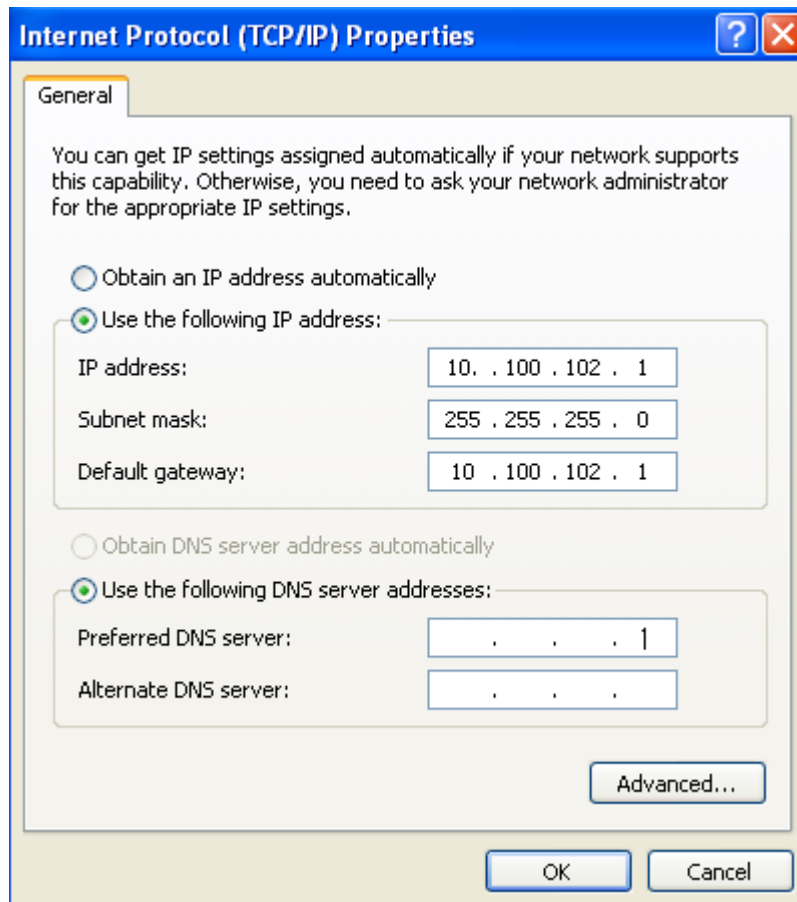
6) Set the machine "Static IP" using the FLEXTC "SET IP" located on the manual control window :
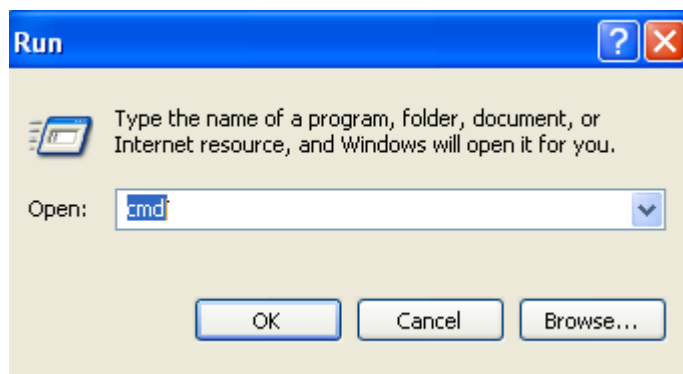

The FLEXTC has a changeable static IP configuration according to the Net server configuration.

For this Example chose:

IP: 10.100.102.17 and GET: 255.255.255.0 and SUB: 10.100.102.17.

7) Go to the command line and RUN "cmd" command.

8) Use ping command to make sure you got TCP/IP connection.

9) Run the unzipped MechanicalDevices.exe file using the following instructions on command line or your program application.

Read command form MI (register cell) :

c:\release\MechanicalDevices.exe MIXXXX 10.100.102.17 20257
Explanation:
c:\release\MechanicalDevices.exe : MechanicalDevices.exe
location of   unzipped release.zip file.
MIXXXX : is the register address.
For example MI0699 is the "SET Point" register   address.
Attached a complete register address file.
10.10.102.17 : is the static I.P address.
20257 : is the controller port number. Use this number.

Write command form MI (register cell) :

c:\release\MechanicalDevices.exe MIXXXX 10.100.102.17 20257 XXXX
Explanation:
c:\release\MechanicalDevices.exe : MechanicalDevices.exe location of
unzipped release.zip file.
 MIXXXX : is the register address.
 For example MI699 is the "SET Point" register   address.
 Attached a complete register address file.
10.10.102.17 : is the static I.P address.
20257 : is the controller port number. Use this number.
XXXX : is the register value.

```
C:\>c:\release\mechanicaldevices.exe MI0699 10.100.102.17 20257 256
**************************************************
          Mechanical Devices CLI Version 2.0
**************************************************

Connection established to 10.100.102.17 port 20257
MI-> Writing 256 to address 699
Operation Completed
```

Read command form MB (Boolean cell) :

c:\release\MechanicalDevices.exe MBXXXX 10.100.102.17 20257

Explanation:

c:\release\MechanicalDevices.exe : MechanicalDevices.exe location of unzipped release.zip file.

MBXXXX : is the Boolean address.

For example MB020 is the "RUN" bit address.

Attached a complete BIT address file.

10.10.102.17 : is the static I.P address.

20257 : is the controller port number.

```
C:\>c:\release\mechanicaldevices.exe MB0020 10.100.102.17 20257
**********************************************
          Mechanical Devices CLI Version 2.0
**********************************************

Connection established to 10.100.102.17 port 20257
MB-> Reading from address 20
Result =0
Operation Completed

C:\>
```

Write command form MB (Boolean cell) :

c:\release\MechanicalDevices.exe MBXXXX 10.100.102.17 20257 X

Explanation:

c:\release\MechanicalDevices.exe : MechanicalDevices.exe location of unzipped release.zip file.

MBXXXX : is the Boolean address.

For example MB020 is "RUN" bit address.

10.10.102.17 : is the static I.P address.

20257 : is the controller port number.

X : is 1 or 0

```
C:\>c:\release\mechanicaldevices.exe MB0020 10.100.102.17 20257  0
****************************************************
          Mechanical Devices CLI Version 2.0
****************************************************

Connection established to 10.100.102.17 port 20257
MB-> Writing 0 to address 20
Operation Completed

C:\>
```

10) Please refer to the Register and bit Map for complete parameters address.