

TestView

TCP/UDP/COM Test Program User Manual

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Revision History

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Chapter 1. Overview

TestView is a serial / socket communication test application running on Windows. It allows exact and smooth test environment for serial Multiports, embedded modules, and device servers manufactured and distributed by SystemBase Co., Ltd.

1.1 Features

This application can be used to test ports for almost all Multiport and device server products manufactured and distributed by SystemBase Co., Ltd.

- Performance test provides numeric measures.
- Received data can be displayed in the window.
- Various protocols are supported.(COM, UDP, TCP)
- File transfer test through COM ports.

1.2 Software

It is a Windows application, composed of a single installer file
TestView-setup.exe

1.3 Hardware

- TCP/UDP Port
 - Portbase 3010+/ 3020+/ 3040/ 3080/ 3160/ 3161
 - Eddy Modules
- COM Port
 - Redirector Com
 - Multi-2,4,8,16,32 PCI Multiport
 - Multi-1,2,4,8 USB Multiport

1.4 Environment

- As the number of test ports increases, more CPU power and higher memory is required.
- CPU : Pentium 1Ghz or better
- Memory : 512Mb or higher
- O/S : Windows 2000/XP/2003/Vista/2008/7
- CD-ROM : 4X or faster
- Network : 10M Ethernet or faster

1.5 Protocols

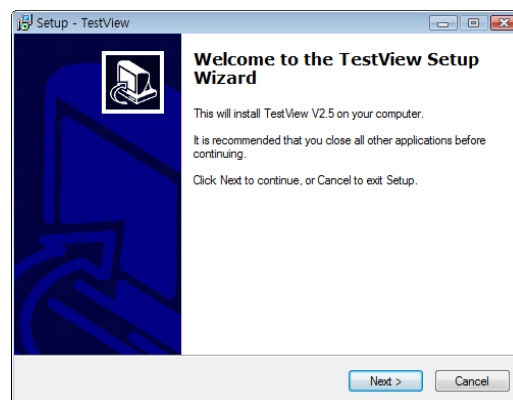
- COM Serial
- TCP Server/Client
- UDP Server/Client

Chapter 2. Installation

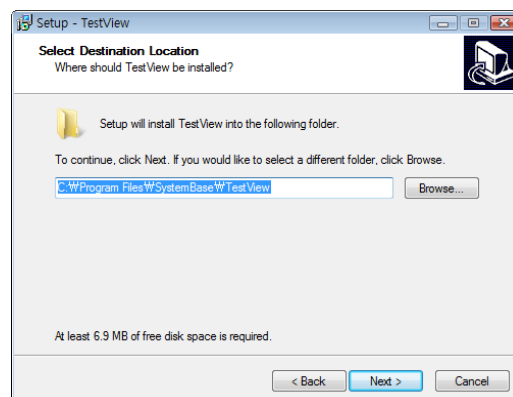
Installation process is simple and intuitive. Follow install steps provided below.

2.1 How to Install

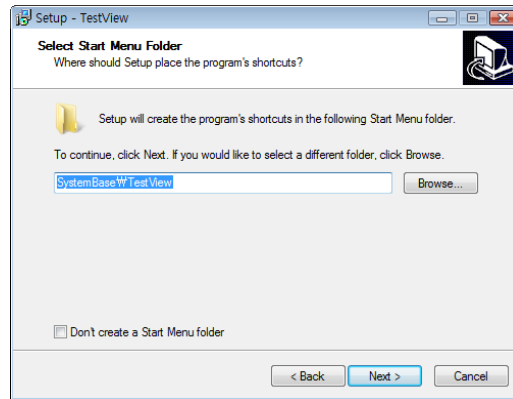
1. You can install TestView with the installation CD or the executable file.
2. Insert the installation CD into the CD-ROM drive to see an auto-run menu screen. Select TestView from the menu to start installation. When running with the executable file, simply run TestView_Setup.exe.
3. If successful, you will see the bottom-left window. Click “Next”.



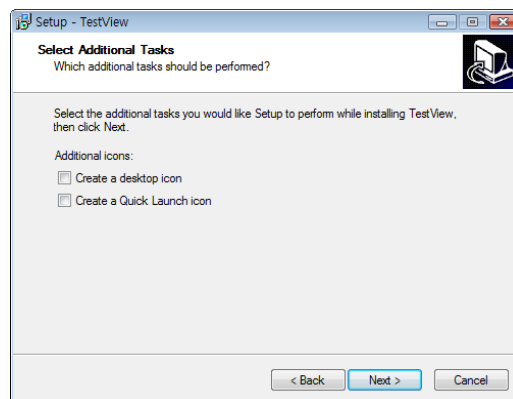
4. You can change the destination installation directory by clicking “Browse...” button. It is recommended, however, that you keep the default location. from the bottom-right corner. Click “Next” after choosing the target directory.



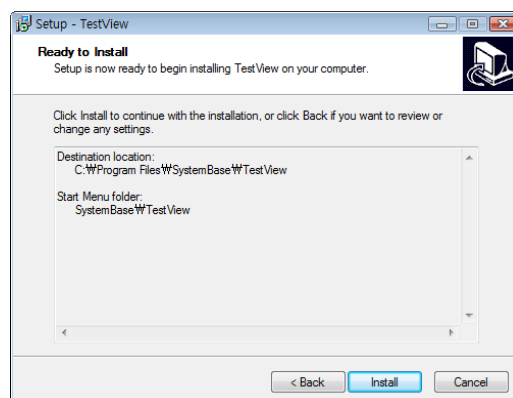
5. Select start menu folder. You can choose not to create start menu folder.



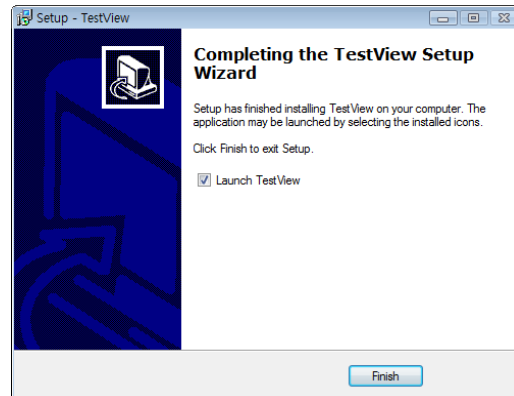
6. Choose to create a desktop icon and a Quick Launch icon. Click "Next".



7. Click "Install".

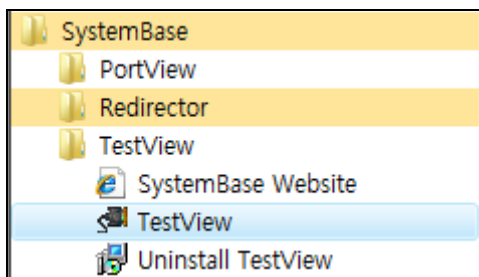


8. Click “Finish” to complete TestView installation.

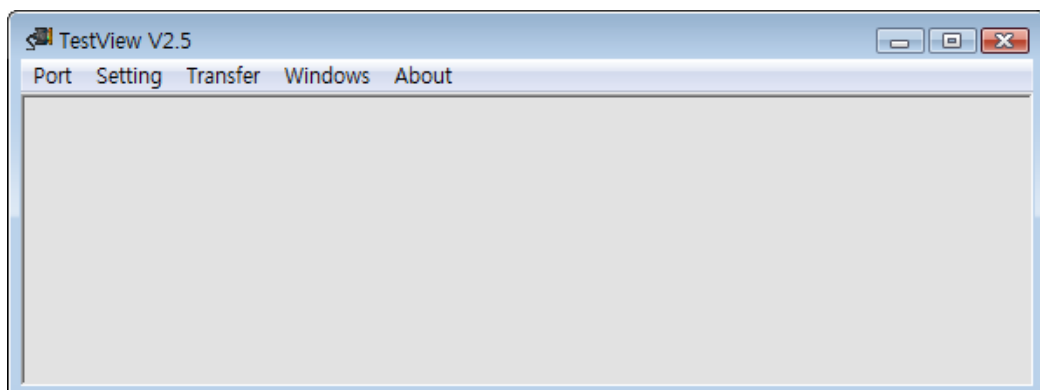


2.2 Running(2000/XP/2003)

1. If you have a desktop icon for TestView, double-click the icon to run the application.
2. Otherwise, Select “Start → All Programs → SystemBase → TestView → TestView”.

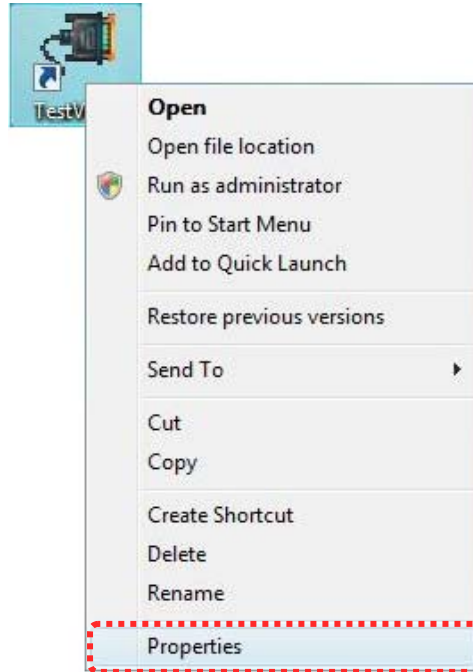


3. If successful, you will see the main window of TestView similar to the one shown below.

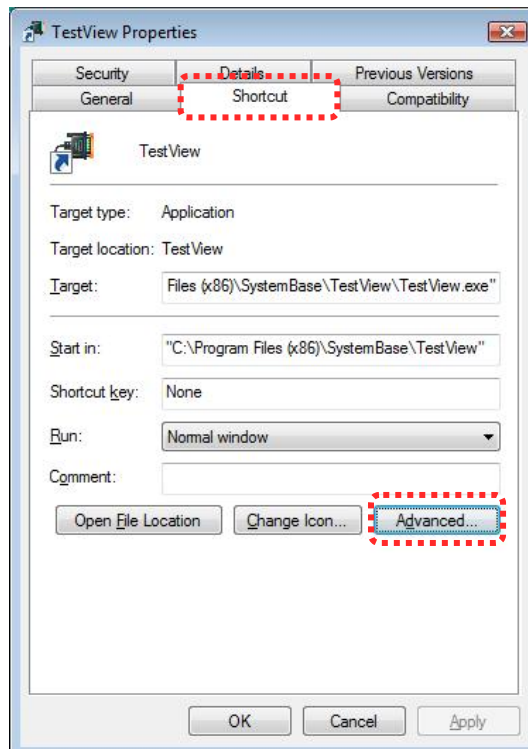


2.3 Running(Vista/2008/7)

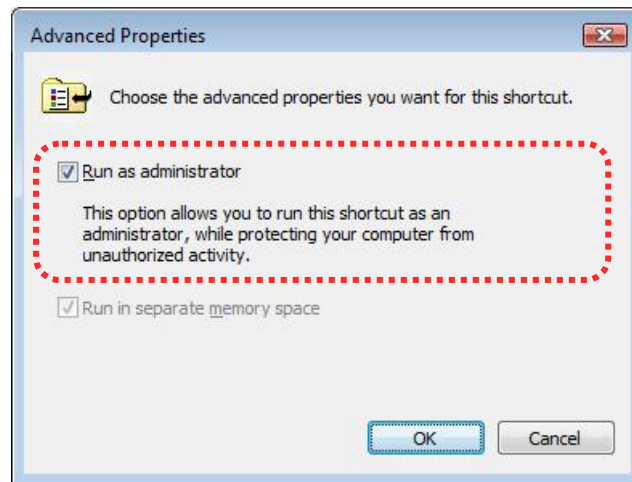
1. It is necessary to setting following methods because of enhanced securities in windows vista/2008/7.
2. Right click “TestView” icon on the desktop, then select “Properties”



3. Select “Shortcut” tab, then click “Advanced”.



4. Check “Run as administrator” in “Advanced Properties” window, then click “OK” button.



Chapter 3. Menu

Since TestView has complex menu system, detailed menu description will be provided in the following chapters. This chapter is a brief outline for menu system. From TestView version 2.5, Burning menu is removed and Transfer menu is added. In this manual, previous screenshots from version 2.0, which shows Burning menu instead of Transfer menu, is still used for pages that are not related with those two menus. But from TestView 2.5, only Transfer menu exists so please don't be confused.

3.1 Menu Description

| Main Menu | Sub Menu | Description |
|-----------|-------------------------|---|
| Port | Com Port | Open and test serial ports. |
| | TCP/UDP Port | Open and test TCP/UDP ports. |
| | Open | Read information stored in files. |
| | Save | Save information as files. |
| | Exit | Exit the program. |
| Settings | Macro | Assign macro data to transfer. (F1~F12) |
| | Font for Terminal | Change fonts. |
| | Serial Thread Priority | Sets serial operation thread priority |
| | TCP/UDP Thread Priority | Sets TCP/UDP operation thread priority |
| Transfer | File Send | Send file through COM port. |
| | File Receive | Receive file through COM port. |
| Windows | Tile | Open windows in tile style. |
| | Cascade | Open windows in cascade style. |
| | Close Terminal | Close all terminal windows |
| | Close All | Close all child windows |
| About | Help | Open help. |
| | About | Open program information. |

Chapter 4. Port Menu

This chapter describes port menu in the main menu.

4.1 Com Port

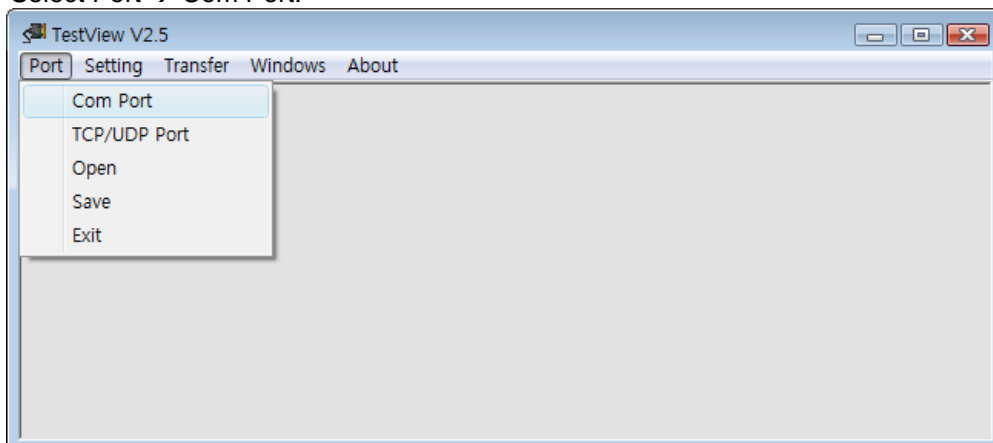
Open and test Com Ports. TCP/UDP ports are described in the following section.

4.1.1 Features

- New windows are available to monitor incoming data to Com Ports.
- Throughput is displayed.
- Test data can be transferred via COM ports.

4.1.2 Opening Com Ports

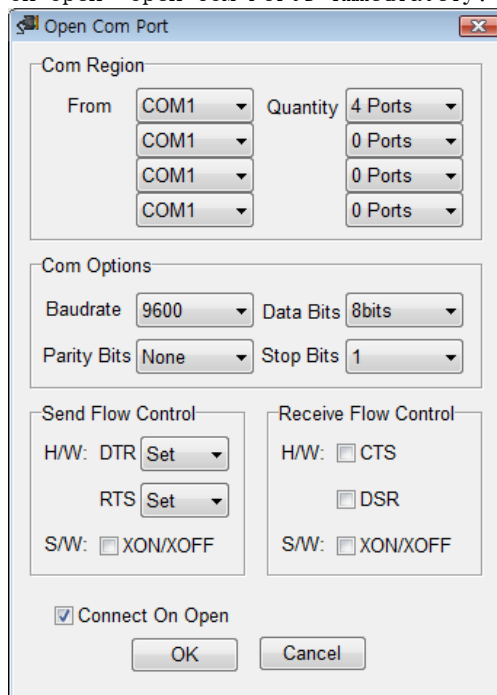
- Select Port → Com Port.



4.1.3 Open Com Port Configurations

Select a beginning port number and assign quantity. Also available are baud rate, data bits, parity bits, and stop bits. (When you assign 64 ports, the system automatically detects COM ports and opens them.) Click "OK" when finished with the configuration.

- "Open Com Port" Menu Description
 - Com Region: 4 ranges can be defined. Each range can support up to 64 ports; 256 ports can be assigned in total.
 - Com Options: Communication options.
 - Baudrate: Transmission speed
 - Data Bits: Data Bits
 - Parity Bits: Parity Bit
 - Send Flow Control: Select send flow control method.
 - Receive Flow Control: Select receive flow control method.
 - Connect On Open: Open COM Ports immediately.



4.1.4 Com Ports Window Main Menu

“COM Ports” menu is presented when you open ports. The following example shows that 8 ports are opened from COM7 to COM14. Buttons affect all ports shown in this window.

- Menu description
 - Connect : Open all or selected ports.
 - Disconnect : Close all or selected ports.
 - Setup : Change default communication options for individual ports.
 - Clear : Initialize all counts for all or selected ports.
 - Send Data : Send character data (A~Z) to all or selected ports.
 - Start Throughput : Start calculating throughput for all or selected ports.
 - Stop Throughput : Stop calculating throughput for all or selected ports.
 - Terminal : Run port emulator for all or selected ports
 - Add Port: Add Additional Ports

Tip

When you drag your mouse for more than 1 ports and right-click, pull-down menu is displayed. You can control port operations with this menu.

4.1.5 Com Ports Window Description

Port information is described in a number of parameters.

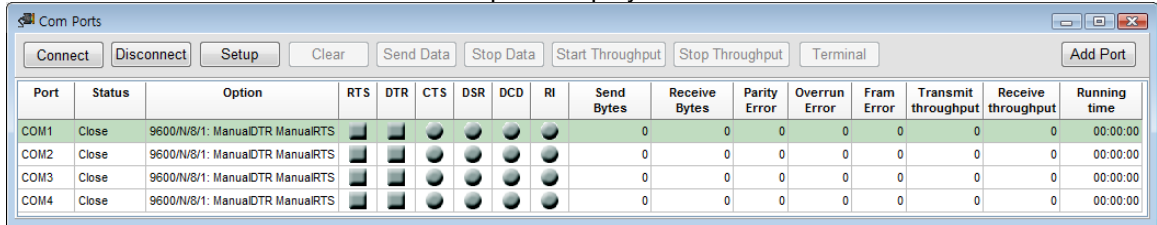
| Port | Status | Option | RTS | DTR | CTS | DSR | DCD | RI | Send Bytes | Receive Bytes | Parity Error | Overrun Error | Fram Error | Transmit throughput | Receive throughput | Running time |
|------|--------|--------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------|---------------|--------------|---------------|------------|---------------------|--------------------|--------------|
| COM1 | Close | 9600/N/8/1: ManuaIDTR ManuaRTS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:00 |
| COM2 | Close | 9600/N/8/1: ManuaIDTR ManuaRTS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:00 |
| COM3 | Close | 9600/N/8/1: ManuaIDTR ManuaRTS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:00 |
| COM4 | Close | 9600/N/8/1: ManuaIDTR ManuaRTS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:00 |

- Columns
 - Port: Com Port number
 - Status: connection status. Connect: connected, Close: disconnected.
 - Option: Baudrate/parity/data bit/stop bit/Flow control type displayed.
 - Signals: RTS/DTR/CTS/DSR/DCD/RI signal displayed.
 - Send Bytes: Tx Byte count
 - Receive Bytes: Rx Byte count
 - Parity: Parity bit error count
 - Overrun Error: Overrun Error count
 - Transmit throughput/Receive throughput: Tx/Rx data per second
 - Running: Time elapsed from the opening of the port. Cleared when ‘Clear’ is selected.

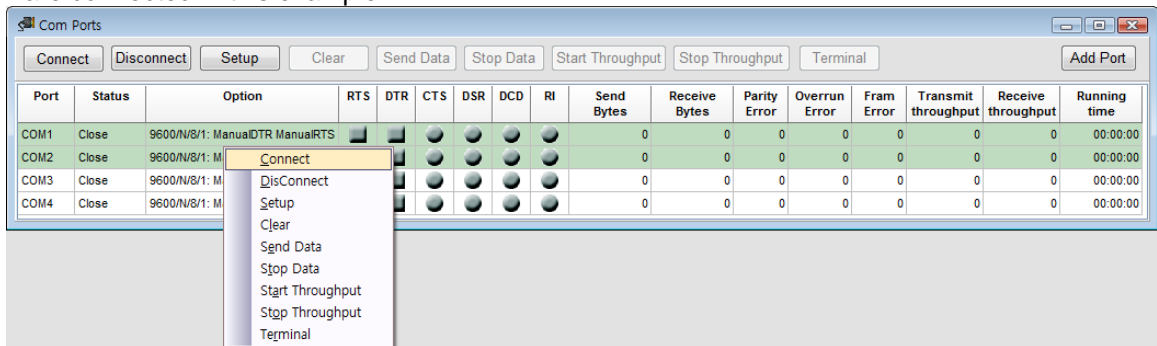
4.1.6 Connect / Disconnect Button

Connect option opens selected ports. All menu options are activated after the port is opened.

- Use buttons to connect or disconnect all ports displayed in the window.



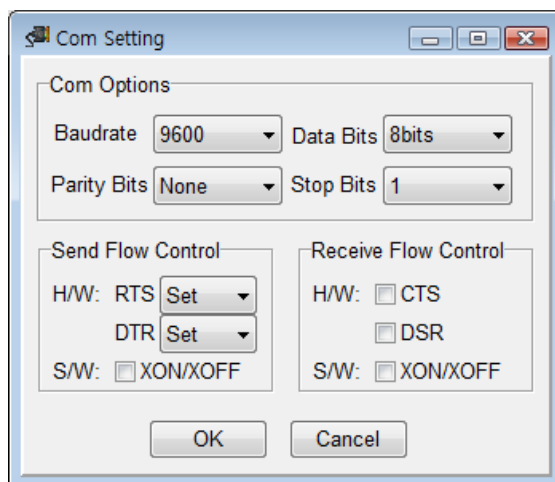
- When you want to connect or disconnect only selected ports, refer to the screenshot below. Ports are connected in this example.



4.1.7 Setup Button

The options are identical to what is available in “Open COM Port” menu. This option is handy when you need to change speed or other options when testing ports.

- When you press “Setup” button, “COM Setting” window is displayed.
- Baudrate/Data Bits/Parity bit/Stop Bits/Flow Control options can be changed. It is recommended, however, that you use default settings except the baudrate.



- Option description in “Com Setting” window
 - Com Options: Communication options.
 - Baudrate: Transmission speed
 - Data Bits: Data Bits setting
 - Parity Bits: Parity Bit setting
 - Stop Bits: Stop bit setting
 - Flow Control: Select flow control method.
 -

4.1.8 Clear Button

“Clear” button clears all information recorded so far.

- Before selecting “Clear”

| Port | Status | Option | RTS | DTR | CTS | DSR | DCD | RI | Send Bytes | Receive Bytes | Parity Error | Overrun Error | Fram Error | Transmit throughput | Receive throughput | Running time |
|------|---------|---------------------------------|-----|-----|-----|-----|-----|----|------------|---------------|--------------|---------------|------------|---------------------|--------------------|--------------|
| COM1 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 5,454 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:11 |
| COM2 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 5,454 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:11 |
| COM3 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 5,454 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:11 |
| COM4 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 5,454 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:11 |

- After selecting “Clear”

| Port | Status | Option | RTS | DTR | CTS | DSR | DCD | RI | Send Bytes | Receive Bytes | Parity Error | Overrun Error | Fram Error | Transmit throughput | Receive throughput | Running time |
|------|---------|---------------------------------|-----|-----|-----|-----|-----|----|------------|---------------|--------------|---------------|------------|---------------------|--------------------|--------------|
| COM1 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:37 |
| COM2 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:37 |
| COM3 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:37 |
| COM4 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00:00:37 |

4.1.9 Send Data/Stop Data

Send pattern data.

| Port | Status | Option | RTS | DTR | CTS | DSR | DCD | RI | Send Bytes | Receive Bytes | Parity Error | Overrun Error | Fram Error | Transmit throughput | Receive throughput | Running time |
|-------|---------|---------------------------------|-----|-----|-----|-----|-----|----|------------|---------------|--------------|---------------|------------|---------------------|--------------------|--------------|
| COM29 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 870 | 784 | 0 | 0 | 0 | 0 | 0 | 00:01:30 |
| COM30 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 870 | 788 | 0 | 0 | 0 | 0 | 0 | 00:01:30 |
| COM31 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 870 | 756 | 0 | 0 | 0 | 0 | 0 | 00:01:30 |
| COM32 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 870 | 776 | 0 | 0 | 0 | 0 | 0 | 00:01:30 |

4.1.10 Start Throughput/Stop Throughput

Select “Start Throughput” to see Transmit/Receive throughput. Average data per second is calculated from the time start button is pressed. Select “Stop Throughput” to stop calculating.

| Port | Status | Option | RTS | DTR | CTS | DSR | DCD | RI | Send Bytes | Receive Bytes | Parity Error | Overrun Error | Fram Error | Transmit throughput | Receive throughput | Running time |
|-------|---------|---------------------------------|-----|-----|-----|-----|-----|----|------------|---------------|--------------|---------------|------------|---------------------|--------------------|--------------|
| COM29 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 34,314 | 34,199 | 0 | 0 | 0 | 908 | 924 | 00:02:07 |
| COM30 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 34,284 | 34,190 | 0 | 0 | 0 | 908 | 912 | 00:02:07 |
| COM31 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 34,284 | 34,196 | 0 | 0 | 0 | 908 | 907 | 00:02:07 |
| COM32 | Connect | 9600/N/8/1: ManualDTR ManualRTS | ■ | ■ | ● | ● | ● | ● | 34,284 | 34,202 | 0 | 0 | 0 | 908 | 920 | 00:02:07 |

4.1.11 Terminal

Monitor incoming COM port data. The background color for COM port terminals is black.

The screenshot shows the TestView V2.5 application window. At the top, there are menu options: Port, Setting, Transfer, Windows, About. Below the menu is the 'Com Ports' window, which contains a table of port configurations and status. Below this, there are four terminal windows, each displaying a stream of data received from a specific COM port. The data in the terminals consists of a repeating sequence of lowercase letters: 'abcdefghijklmnopqrstuvwxyz'. The terminal windows are titled: 'COM32 (9600/N/8/1: ManualDTR ManualRTS)', 'COM31 (9600/N/8/1: ManualDTR ManualRTS)', 'COM29 (9600/N/8/1: ManualDTR ManualRTS)', and 'COM30 (9600/N/8/1: ManualDTR ManualRTS)'. The background of each terminal window is black.

4.1.12 Add Port

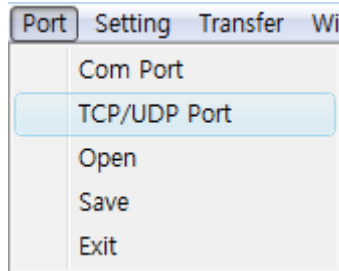
Add additional ports. Refer to 4.1.3 Open Com Port Configuration for more details.

4.2 TCP/UDP Port

This option allows testing TCP Server/Client and UDP protocols.

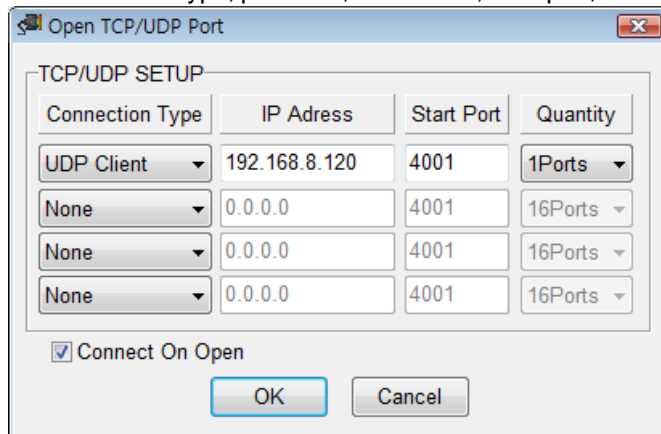
4.2.1 Opening Ports

Select Port → TCP/UDP Port from the menu.



4.2.2 Open TCP/UDP Port Configuration

Set connection type, protocols, IP Address, Start port, and Quantity.



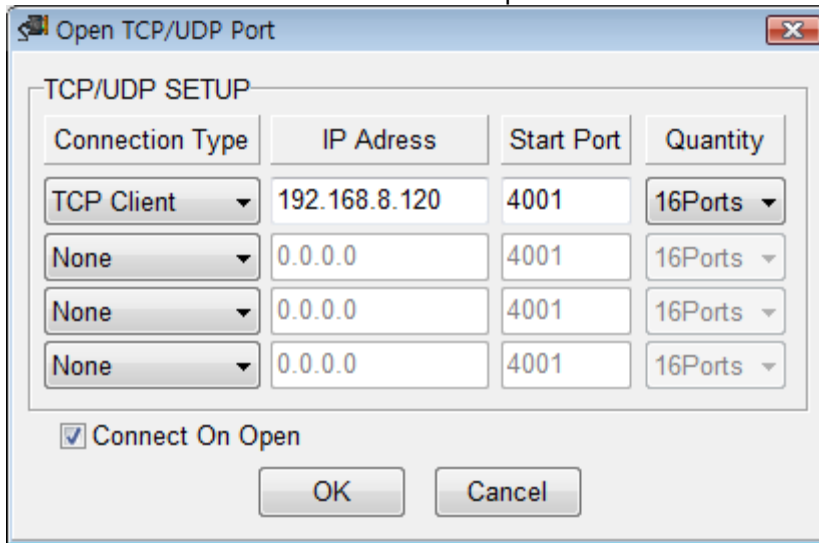
- “Open TCP/UDP Port” Options
 - There are four Connection Type options available.
 - TCP Client : Connect to the remote TCP server. Set server’s IP address and the port.
 - TCP Server : Run the TCP server with the PC. PC’s IP address is used by the server.
 - UDP Client : Connect to the remote UDP server. Set server’s IP address and the port.
 - UDP Server : Run the UDP server with the PC. PC’s IP address is used by the server.
 - IP Address: IP Address
 - Start Port: The beginning port number.
 - Quantity: The number of ports to test.
 -

Note

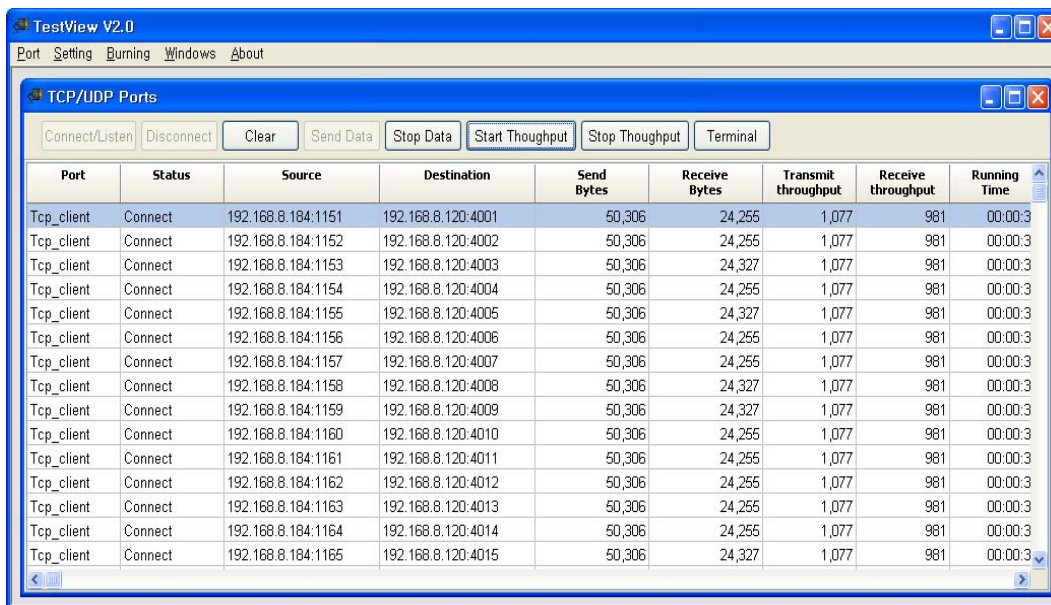
UDP Server/Client test details are identical to TCP Server/Client settings. All other options are identical to COM Ports except the “Setup” menu, so refer to “[Com Ports](#)” for more information.

4.2.3 TCP Client Configuration

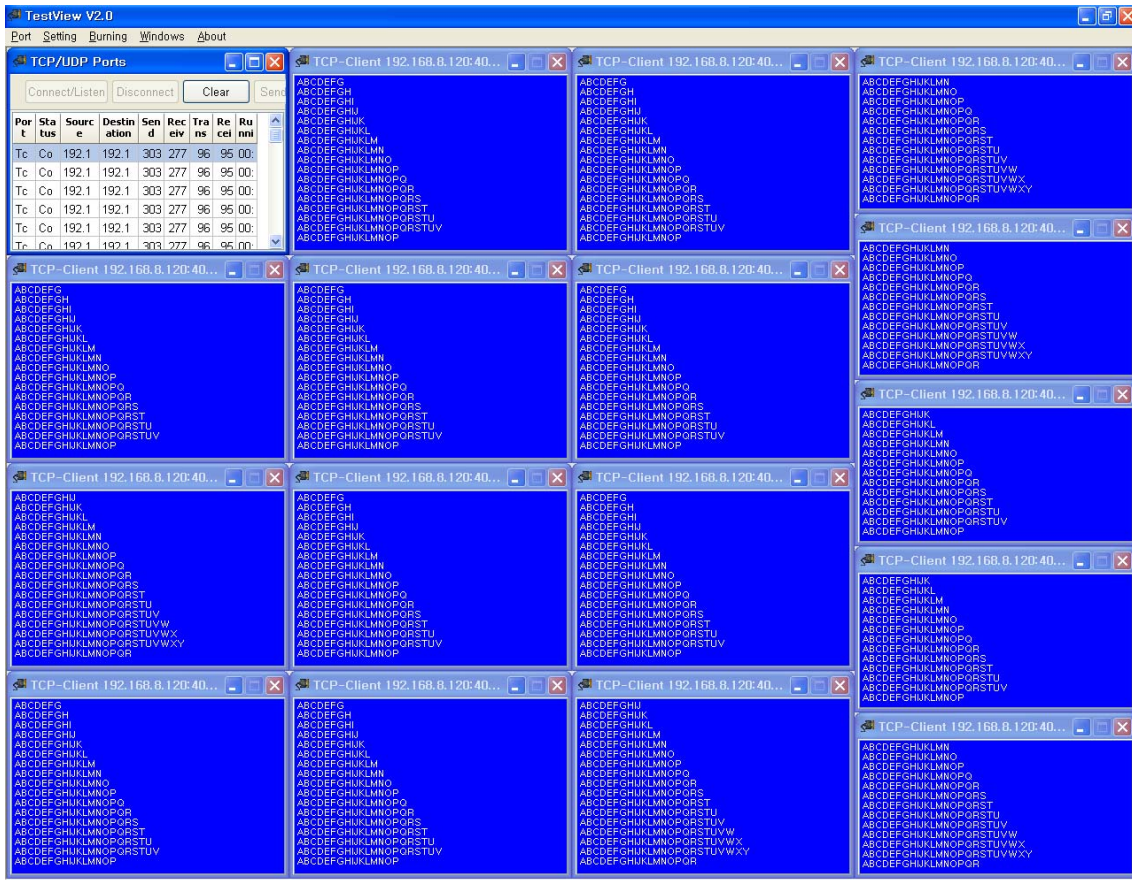
- Test tips
 - From the TCP client, “Connect” and “Send Data” to the server to send pattern data. Select “Start Throughput” to calculate average throughput.
 - Click “Terminal” to monitor incoming data.
 - Click “Clear” when you want to reset all information recorded so far.
 - Select “Data Stop” and “Disconnect” if you want to quit the connection.
- Set the remote server IP address and the port number.



- Transmit test pattern data after making the connection to the remote server.

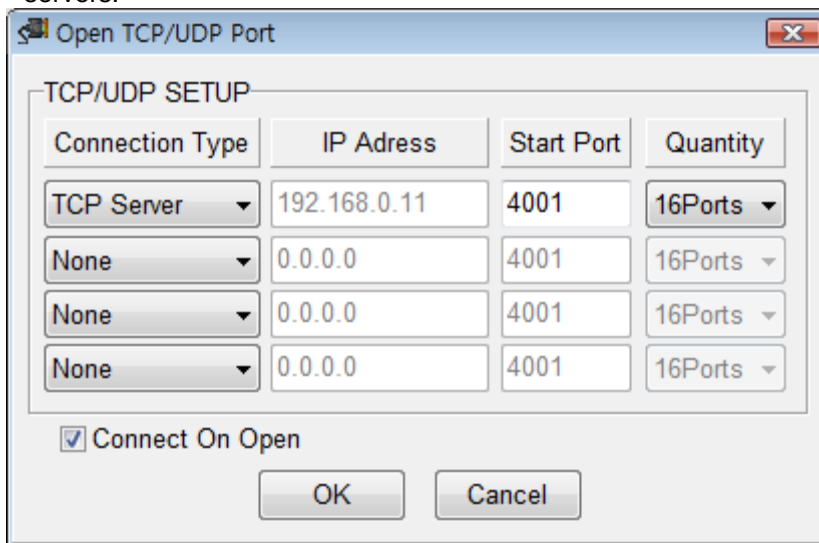


- Click “Terminal” button to monitor test pattern data displayed in the window.

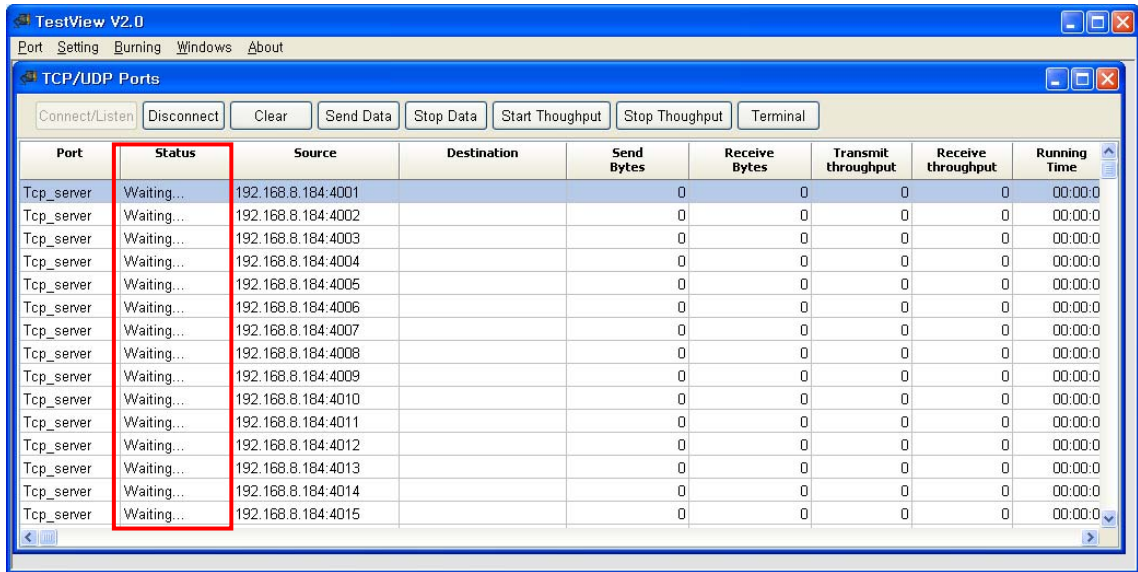


4.2.4 TCP Server Configuration

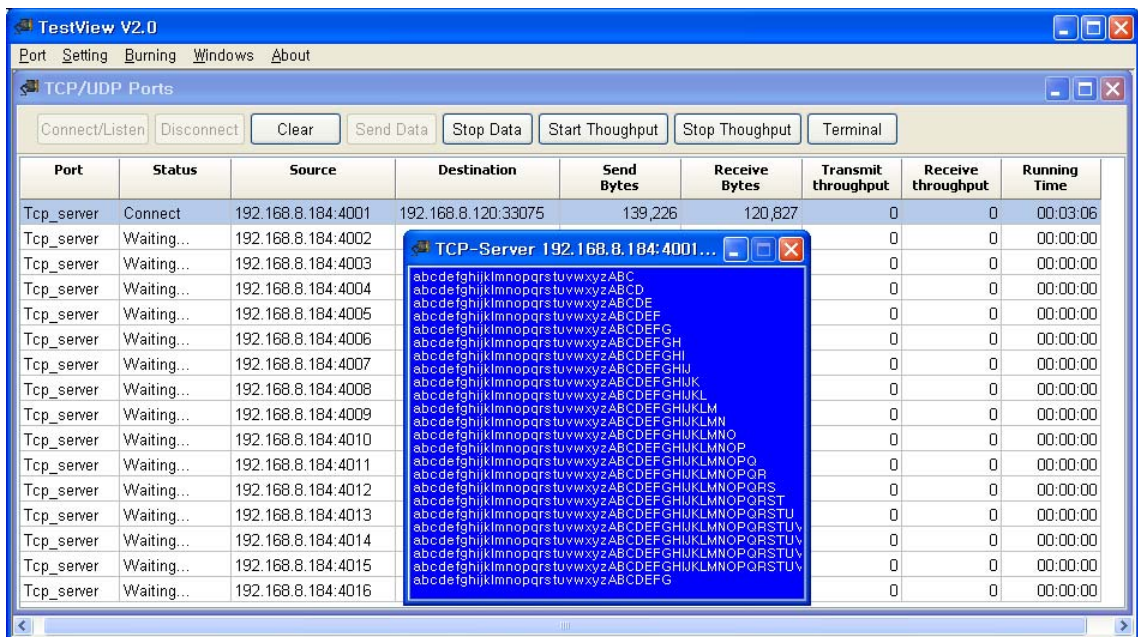
- When you select TCP Server, the current IP address of the PC is automatically assigned. Enter the beginning port number in the 'Start Port' field. Up to 64 ports can be assigned to maximum 4 servers.



- When you select 'Connect' in the TCP Server mode, the status changes to 'Waiting..'



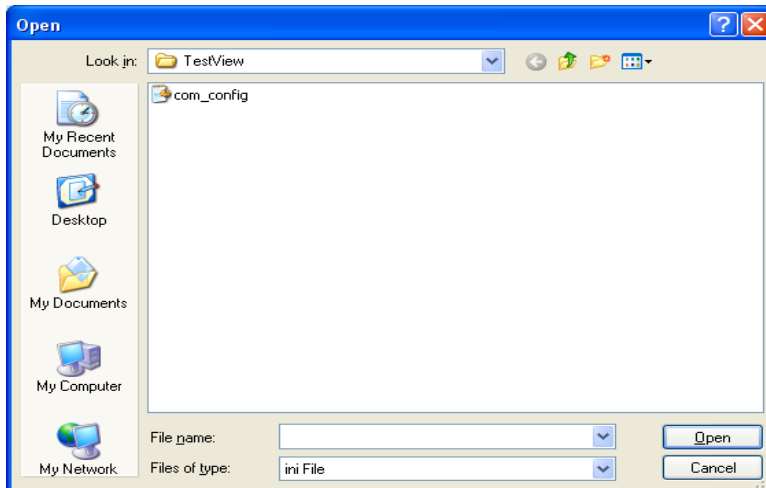
- When you connect to the server from remote sites, destination IP address and data are displayed in the terminal window. Click 'Send Data' to send pattern data. Incoming data is displayed in the terminal window, just as in COM port mode. The difference is in background color of the terminal; it is blue in TCP mode.



4.3 Open

This option is used when restoring previous configurations to another setting. When you need to configure same settings to multiple devices, this option can be handy.

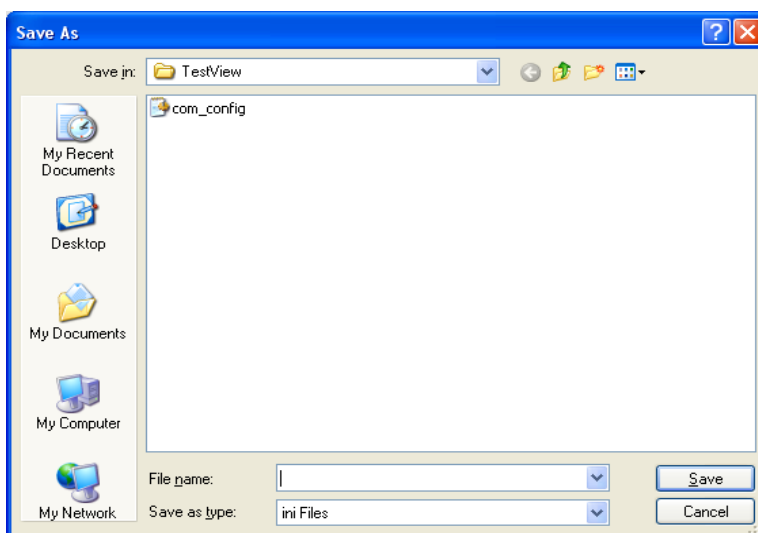
- This menu opens INI configuration files.



4.4 Save

This option is used when saving current configurations to a file. When you need to configure same settings to multiple devices, this option can be handy.

- This menu saves settings in INI configuration file format.

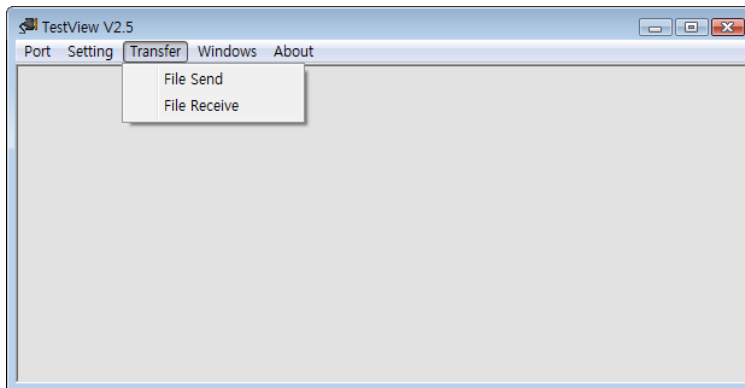


4.5 Exit

Terminate the program.

Chapter 5. File Transfer Menu

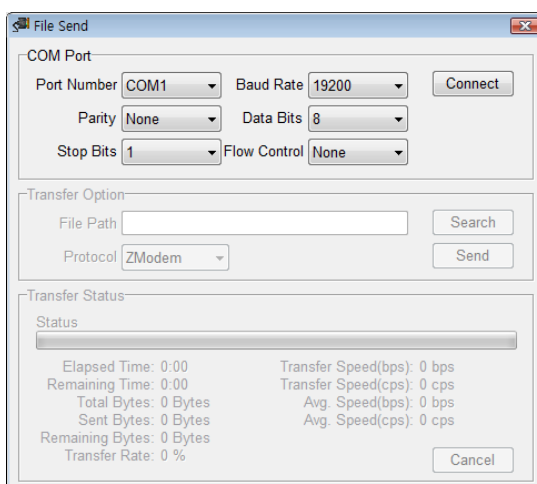
5.1 Summary



You can transfer file through serial COM Ports in File Transfer Menu. Go to Menu → Transfer → File Send to open File Send window or File Receive to open File Receive window.

5.2 Menu

File Transfer window looks as follows. It is divided into three categories, COM Port, Transfer Option and Transfer Status. Notice that only COM Port category is activated. The other two categories will be activated once you connect the COM Port.



- COM Port: Select COM Port settings
- Transfer Option: Select transfer options
- Transfer Status: Displays transfer status

5.2.1 COM Port

You can configure COM Port settings in COM Port category.

- Port Number: Select port number
- Baud Rate: Select baud rate
- Parity: Select parity bits
- Data Bits: Select Data bits.
- Stop Bits: Select stop bits
- Flow Control: Select flow control option.

5.2.2 Transfer Option

You can configure transfer options in Transfer Option category. Options are different between File Send and File Receive.

- File Send

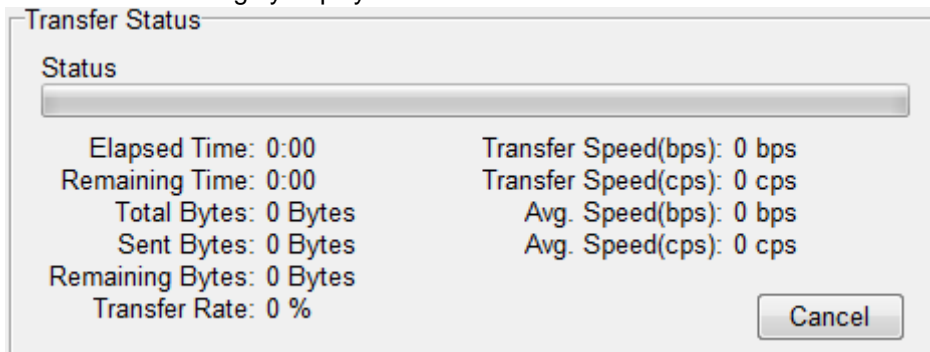
- File Path: Select the path of the file that will be transferred
- Protocol: Select file transfer protocol

- File Receive

- Destination: Select the destination where the transferred file will be saved
- Protocol: Select file transfer protocol

5.2.3 Transfer Status

Transfer Status Category displays file transfer status.



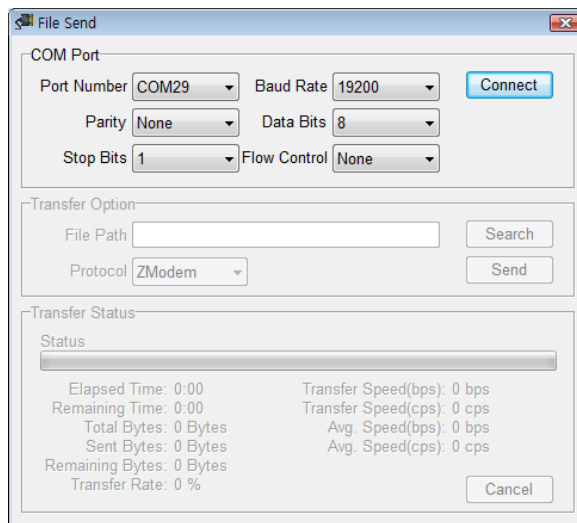
- Status: Shows file transfer status.
- Elapsed Time: Shows elapsed time.
- Remaining Time: Shows estimated remaining time.
- Total Bytes: Shows total size of the file being transferred.
- Sent (Received) Bytes: Shows total sent (received) bytes.
- Remaining Bytes: Shows total bytes left to be transferred.
- Transfer Rate: Shows the transferred bytes rate in percentage.
- Transfer Speed (bps): Shows instantaneous transfer speed in bps.
- Transfer Speed (cps): Shows instantaneous transfer speed in cps.
- Avg. Speed (bps): Shows average transfer speed in bps.
- Avg. Speed (cps): Shows average transfer speed in cps.

5.3 Transferring Files

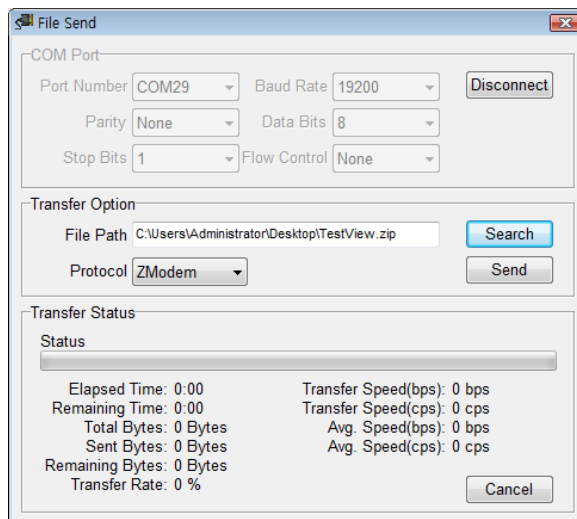
In order to transfer file through file transfer menu, you need two COM ports, one for file send and the other for file receive. Keep in mind that COM port settings and file transfer protocol should be the same for both COM ports.

5.3.1 Sending File

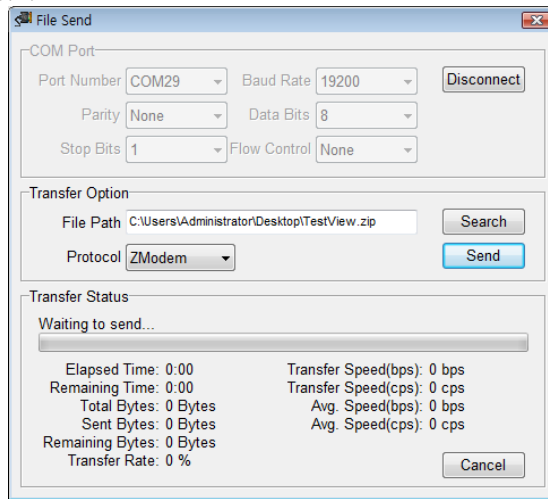
1. Go to Menu → Transfer → File Send and open File Send window. Configure COM Port settings and click “Connect”.



2. Specify the transfer protocol and the file to be sent. You can either type in manually or click “Search” to find the file to be sent.

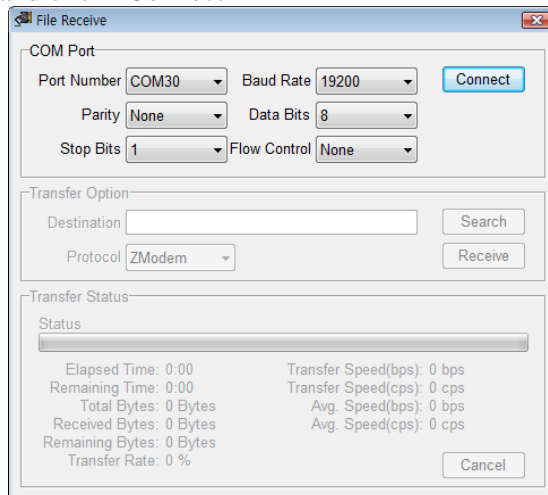


3. Click “Send” and the file sending will start. You can see that “Status” has changed to “Waiting to send...”.

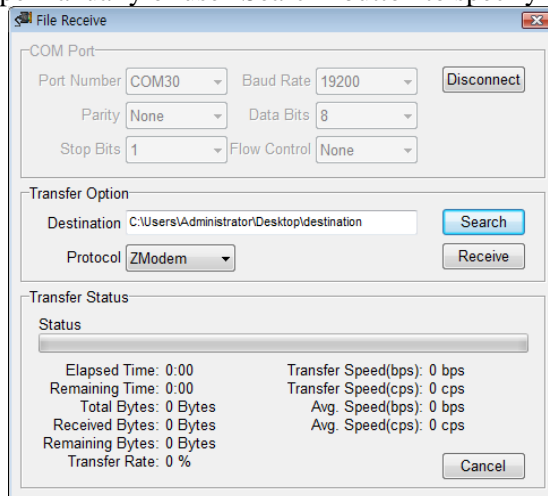


5.3.2 Receiving File

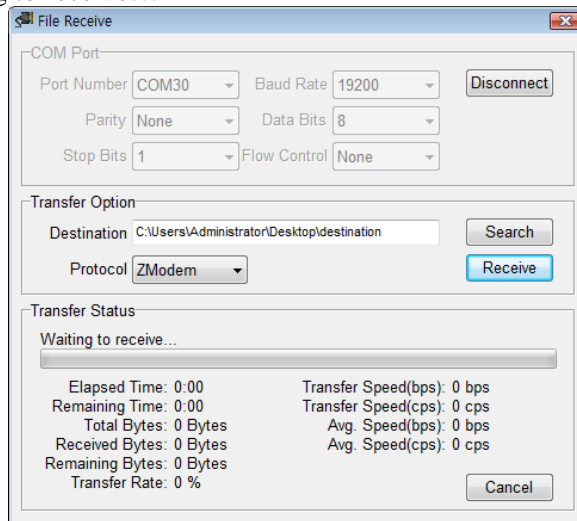
1. Go to Menu → Transfer → File Receive and open File Receive window. Configure COM Port settings and click “Connect”



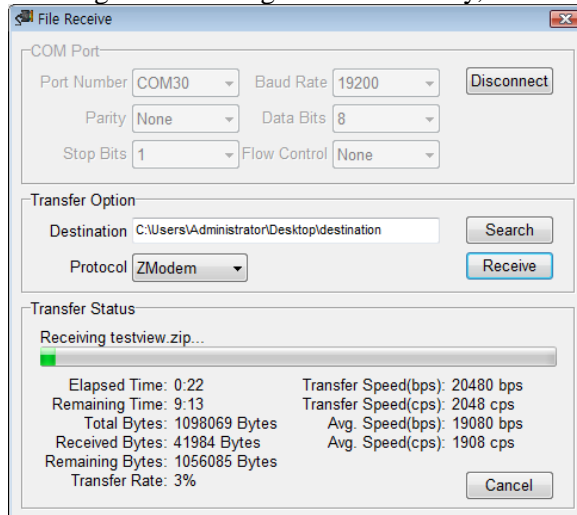
2. Specify the transfer protocol and the directory where the received file will be saved. You can either type manually or use “Search” button to specify the destination directory.



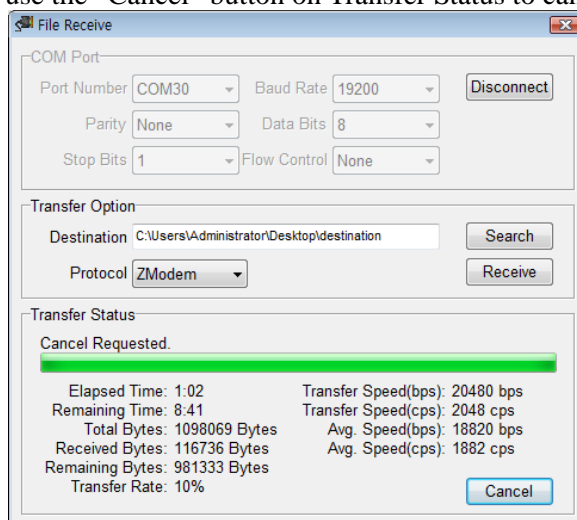
- Click “Receive” and the file receiving will start. You can see that “Status” has changed to “Waiting to receive...”



- Once file sending and receiving is done correctly, file transfer will begin.



- You can use the “Cancel” button on Transfer Status to cancel transfer.



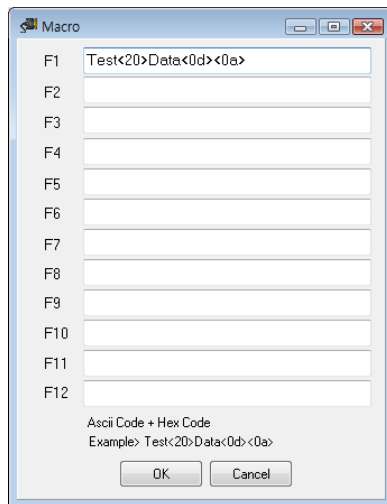
Chapter 6. Settings Menu

6.1 Overview

General options used in TestView can be set up with this menu. Macro is used to simply transmit predefined pattern data with a simple function key. Font can be changed with the Font menu.

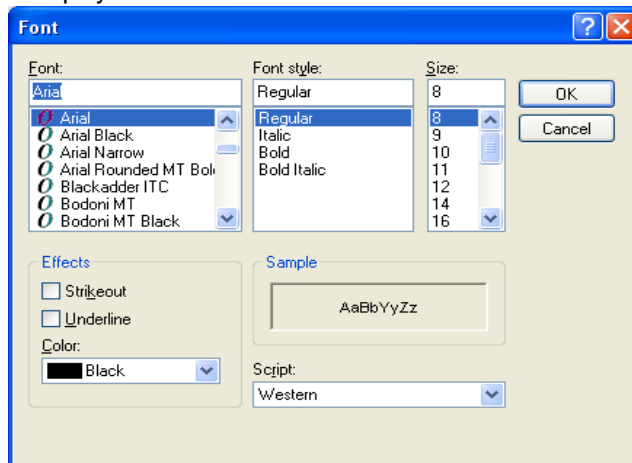
6.2 Macro

Assign pattern data to be transmitted when you press F1 to F12 keys.



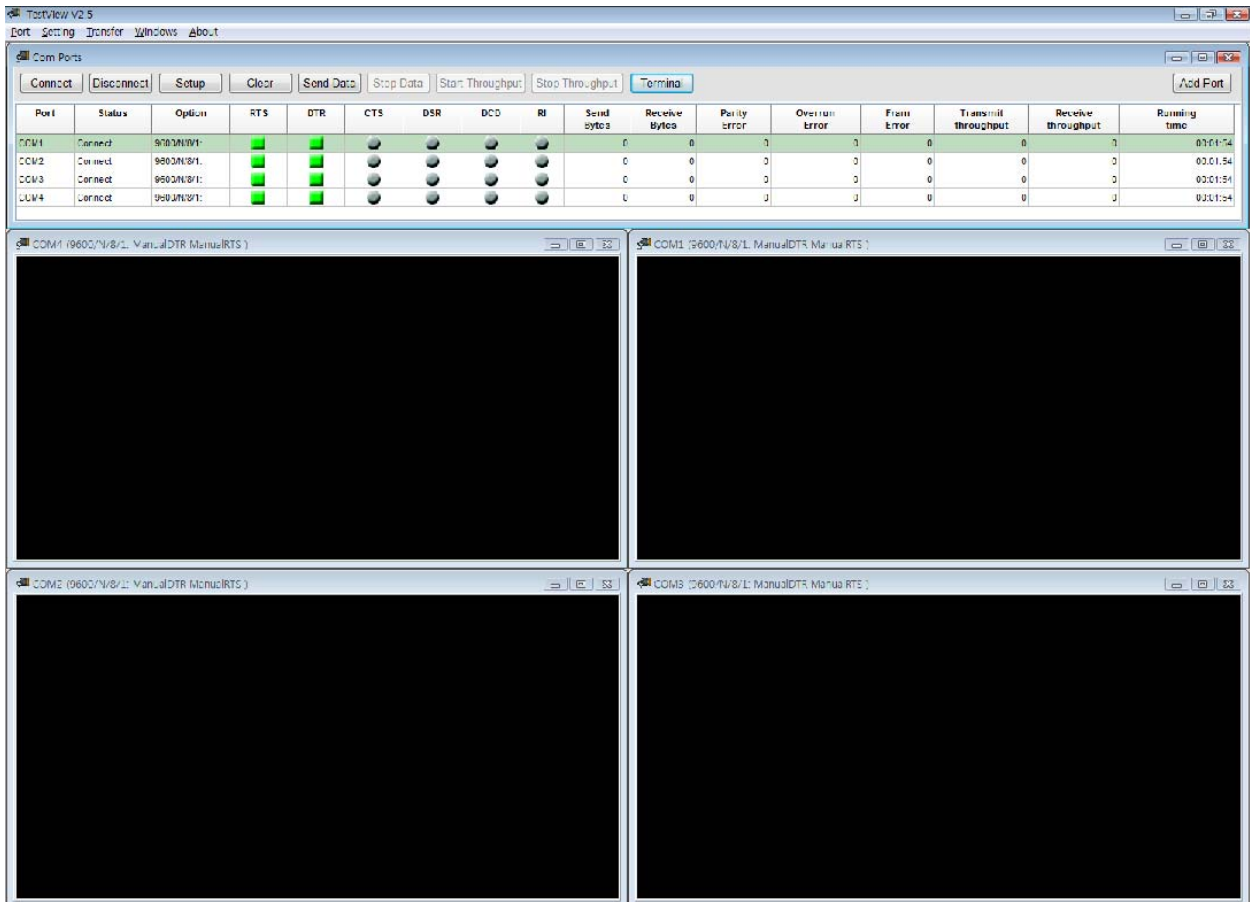
6.3 Font

Change fonts displayed in the terminal window.

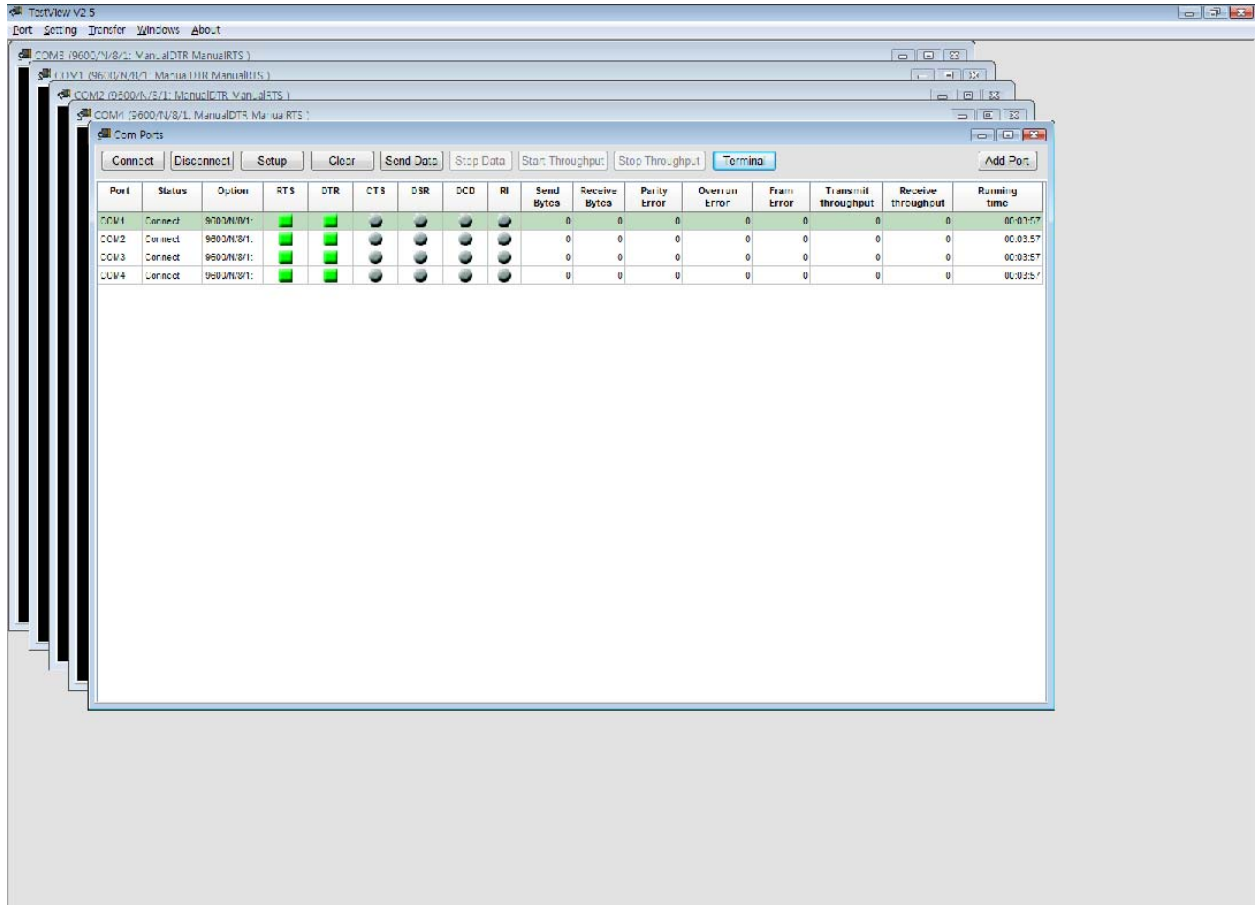


Chapter 7. Windows Menu

7.1 Tile

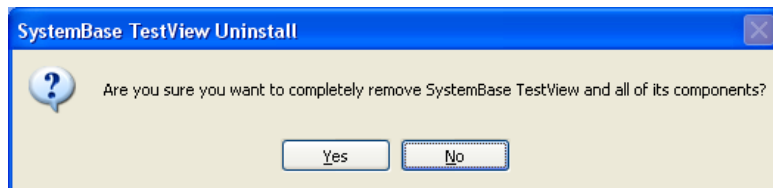


7.2 Cascade

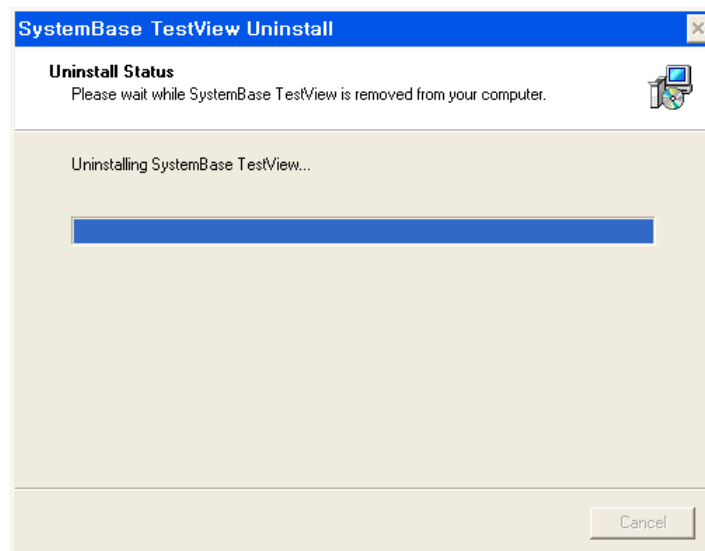


Chapter 8. Uninstalling TestView

- Start -> All Programs -> SystemBase -> TestView -> Uninstall TestView
- Select 'Yes' from the confirmation dialog box.



- Uninstall status is shown in the progress bar.



- After uninstall is complete, the success message is displayed.

