TestView

TCP/UDP/COM Test Program User Manual

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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.

- Burning tests can be performed.
- Performance test provides numeric measures.
- Received data can be displayed in the window.
- Various protocols are supported.(COM, UDP, TCP)

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 : Windows2000/XP/2003/Vista
- 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.

👘 Setup - SystemBas	e TestView 💶 🗖 🗙	🖟 Setup - SystemBase TestView 📃 🗆 🗙
	Welcome to the SystemBase TestView Setup Wizard	Select Destination Location Where should SystemBase TestView be installed?
	This will install 2.0 on your computer. It is recommended that you close all other applications before continuing.	Setup will install SystemBase TestView into the following folder.
	Click Next to continue, or Cancel to exit Setup.	T o continue, click Next: If you would like to select a directent roller, click Browse. EWProgram Files₩SystemBase₩TestView Browse
		At least 3.3 MB of free disk space is required.
	Cancel	<u>N</u> ext>Cancel

5. Choose whether to create a desktop icon, and then click "Next".





6. Click "Install" on the bottom-right.



7. Click "Finish" to complete TestView installation.





2.2 Running

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

	Microsoft Office	•		
All <u>P</u> rogr	ams 🜔 🖮 SystemBase 👘	•	🛅 PortView 🔸	
	Nog Off	Turn Off Computer	🛅 TestView 🕨	S TestView
				B Uninsta SystemBase TestView
🐉 start	Sysbas0	Manual_work		Manual_Work 🛛 🚰 Testy

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





Chapter 3. Menu

Since TestView has complex menu system, detailed menu description will be provided in the following chapters – Port menu and Burning menu. This chapter is a brief outline for menu system.

3.1 Menu Description

Main Menu	Sub Menu	Description					
	Com Port	Open and test serial ports.					
	TCP/UDP Port	Open and test TCP/UDP ports.					
Port	Open	Read information stored in files.					
	Save	Save information as files.					
	Exit	Exit the program.					
Sottings	Macro	Assign macro data to transfer. (F1~F12)					
Settings	Font	Change fonts.					
Burning	Com Burning	Run burning test for COM ports.					
Burning	TCP Burning	Run burning test for TCP ports.					
Windowo	Tile	Open windows in tile style.					
vindows	Cascade	Open windows in cascade style.					
About	Help	Open help.					
About	About	Open program information.					

3.2 Screen Layout

s∰ T	estView	7 V2.0		-	
<u>P</u> ort	<u>S</u> etting	<u>B</u> urning	<u>W</u> indows	<u>A</u> bout	



Chapter 4. Port Menu

This chapter describes port menu in the main menu.

4.1 Com Port

Open and test Com Ports. TCP/UCP 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 \rightarrow Com Port.

ser I	'estViev	v V2.0			_ 🗆 🗶
Port	<u>S</u> etting	<u>B</u> urning	<u>₩</u> indows	<u>A</u> bout	
<u> </u>	m Port				
<u>I</u> C	P/UDP P	ort			
<u>O</u> p	en				
<u>S</u> a	ve				
<u>E</u> ×	it				
ļ					



TestView

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

• Flow Control: Select flow control method.

201	TestViev	v V2.0				_
Port	<u>S</u> etting	<u>B</u> urning	<u>₩</u> indows	<u>A</u> bout		
S	Open C	om Port			- 🗆 ×	
	om Regio	in				
	From	COM7	- Quar	tity 8 Ports	-	
		COM1	-	0 Ports	•	
		COM1	-	0 Ports	•	
		COM1	•	0 Ports	•	
	om Optio	ns				
	Poudroto	0000		01.14	_	
, i	Dauurate	19600	▲ Data I	Bits Jobits	_	
F	Parity Bits	None	▼ Stop I	Bits 1	-	
E	low Contr	nl				
	□ Nor	ne		C Xon/Xoff		
	🔽 RTS	S/CTS		DTR/DSI	2	
		OK	Car	ncel		



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.

s ^{∎I} T	estViev	v V2.0																		-	. 🗆 🤉
ort	<u>S</u> etting	<u>B</u> urning	<u>₩</u> indo	ws <u>A</u>	bout																
_																					_
-120	Com Pe	Jrts				•••••					••••									_ 0	□ ×
	onnect	Discon	nect	Setu	ip	Clear	Sen	d Dat	a		Data	Star	t Throughput		Throughput	Т	erminal	- 1			
																			1		
	Port	Status		(Option	1	RTS	DTR	стя	DSR	DCD	RI	Send Bytes		Receive Bytes		Parity Error	Overrun Error	Framming Error	Transmit throughpu	: Re u thr
co	MZ	Connect	9600/1	V8/1: F	Flow D	TRRTS		-		•				0		0	0	0	0		0
co	M8 I	Connect	9600/\	V8/1: F	low D	TRRTS			-	•	-	ö		0		0	0	0	0	C	0
co	M9 I	Connect	9600/1	V8/1: F	low D	TRRTS			۲	٠	۲	۲		0		0	0	0	0	0	0
co	M10	Connect	9600/\	V8/1: F	low D	TRRTS			۲	•	۲	۲		0		0	0	0	0	C	0
CO	M11	Connect	9600/\	V8/1: F	Flow D	TRRTS			٠			۲		0		0	0	0	0	0	0
CO	M12	Connect	9600/\	V8/1: F	Flow D	TRRTS			٠	٠	۲	۲		0		0	0	0	0	0	0
CO	M13	Connect	9600/\	V8/1: F	Flow D	TRRTS			۲	٠	۲	۲		0		0	0	0	0	0	0
CO	M14	Connect	9600/1	V8/1: F	Flow D	TRRTS						۲		0		0	0	0	0	0	0
4																					Þ

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.

🚰 Com F	Com Ports																
Connect Disconnect Setup Clear Send Data Stop Data Start Throughput Stop Throughput Terminal																	
Port	Status		Option	RTS	DTR	стร	DSR	DCD	RI	Send Bytes		Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Re thre
COM7	Connect	9600/NA	Maile a RTOPT 9	• 🗖							0) (0	0	0	
COM8	Connect	9600/	<u>C</u> onnect	1		۲		۲	۲		0		0 0	0	0	0	,
COM9	Connect	96007	<u>D</u> isConnect			۲	٠	۲	۲		0) 0	0	0	0	J I
COM10	Connect	96007	<u>S</u> etup			۲	٠	۲	۲		0) 0	0	0	0	J
COM11	Connect	96007	S <u>e</u> nd Data						۲		0) (0	0	0	J
COM12	Connect	96007	Stop Data						۲		0) (0	0	0	J
COM13	Connect	96007	Start Throughput			۲	٠	۲	۲		0		0 0	0	0	0	, T
COM14	Connect	96007	Stop Throughput			۲	٠	۲	۲		0) 0	0	0	0	J
•			Te <u>r</u> minal														Þ



4.1.5 Com Ports Window Description

Port information is described in a number of parameters.

s [∰] Co	m Ports															- 🗆 ×
Con	nect D	isconnect Setup	CI	ear	Sen	d Data	Sto	p Dat	a Start Thr	oughput	op Thro	ughput	Terminal			
Port	Status	Option	RTS	DTR	стѕ	DSR	DCD	RI	Send Bytes	Receive Bytes	Parit y	Overrun Error	Fram Error	Transmit throughput	Receive throughp	Running time
COM3	Connect	9600/N/8/1: Flow DTRRTS	· • •					0	6,608	Ö	0	0	0	961	0	00:00:33
COM4	Connect	9600/N/8/1: Flow DTRRTS						۲	6,608	0	0	0	0	961	0	00:00:33
COM5	Connect	9600/N/8/1: Flow DTRRTS						۲	6,608	6,504	0	0	0	961	966	00:00:33
COM6	Connect	9600/N/8/1: Flow DTRRTS						۲	6,608	6,504	0	0	0	961	966	00:00:33
COM7	Connect	9600/N/8/1: Flow DTRRTS						۲	6,608	6,504	0	0	0	961	966	00:00:33
COM8	Connect	9600/N/8/1: Flow DTRRTS						۲	6,608	6,504	0	0	0	961	966	00:00:33
COM9	Connect	9600/N/8/1: Flow DTRRTS			۲	۲	۲	۲	6,608	6,504	0	0	0	961	966	00:00:33
COM10	Connect	9600/N/8/1: Flow DTRRTS			۲	۲	۲	۲	6,608	6,504	0	0	0	961	966	00:00:33

• 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.

s ^a -Con f	Ports	•••••												- 🗆	×
Connect	Discon	nect Setup Clear	Ser	nd Dat	a	Stop I	Data	Sta	t Throughput Stop Throug	ghput T	erminal				
Port	Status	Option	RTS	DTR	стร	DSR	DCD	RI	Send Rec Bytes By	ceive ytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Re thre
COM7	Connect	9600/N/8/1: Flow DTRRTS			۲	•		۲	0	0	0	0	0	0	
COM8	Connect	9600/N/8/1: Flow DTRRTS						۲	0	0	0	0	0	0	
COM9	Connect	9600/N/8/1: Flow DTRRTS						۲	0	0	0	0	0	0	
COM10	Connect	9600/N/8/1: Flow DTRRTS			۲		۲	۲	0	0	0	0	0	0	
COM11	Connect	9600/N/8/1: Flow DTRRTS						۲	0	0	0	0	0	0	
COM12	Connect	9600/N/8/1: Flow DTRRTS						۲	0	0	0	0	0	0	
COM13	Connect	9600/N/8/1: Flow DTRRTS			۲		۲	۲	0	0	0	0	0	0	
COM14	Connect	9600/N/8/1: Flow DTRRTS			۲		۲	۲	0	0	0	0	0	0	
•															F

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

⁄ Com F	Ports															_ [⊐ ×
Connect	Discon	nect Setu	up Clear :	Sen	d Dat	a	Stop D)ata	Star	t Throughput	Stop	o Throughput	erminal				
Port	Status		Option R	ts.	DTR	стร	DSR	DCD	RI	Send Bytes		Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Re thre
COM7	Connect	9600/N/8	Connect	T	:			۲	۲		0	0	0	0	0	0	
COM8	Connect	9600/N/8	DisConnect								0	0	0	0	0	0	
COM9	Connect	9600/N/8	Sotio	- -				۲			0	0	0	0	0	0	l l
COM10	Connect	9600/N/8.	Send Data			۲		۲	۲		0	0	0	0	0	0	J
COM11	Connect	9600/N/8	Senu Data						۲		0	0	0	0	0	0	J
COM12	Connect	9600/N/8.	Stop Data					٠	۲		0	0	0	0	0	0	J
COM13	Connect	9600/N/8	Start Inroughput			۲		۲	۲		0	0	0	0	0	0	,
COM14	Connect	9600/N/8.	Stop Throughput			۲	•	۲	۲		0	0	0	0	0	0)
•			le <u>r</u> minal														►

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.

🚰 Com I			Г			_					- 5	×
Connect	Discon	nect Setup Clear		Com Setting	_ 🗆	×	hput	Terminal				
Port	Status	Option	I	Baudrate 9600 💌 Data	Bits 8bits 💌		eive tes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Re thre
COM7	Connect	9600/N/8/1: Flow DTRRTS		Parity Bits None	Bits 1		0	0	0	0	0	
COM8	Connect	9600/N/8/1: Flow DTRRTS					0	0	0	0	0	
COM9	Connect	9600/N/8/1: Flow DTRRTS		Flow Control		-	0	0	0	0	0	
COM10	Connect	9600/N/8/1: Flow DTRRTS		None	☐ Xon/Xoff		0	0	0	0	0	
COM11	Connect	9600/N/8/1: Flow DTRRTS		RTS/CTS	DTR/DSR		0	0	0	0	0	(
COM12	Connect	9600/N/8/1: Flow DTRRTS					0	0	0	0	0	
COM13	Connect	9600/N/8/1: Flow DTRRTS					0	0	0	0	0	l l
COM14	Connect	9600/N/8/1: Flow DTRRTS		OKCa	ancel		0	0	0	0	0	
•												Þ



TestView

- 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"

🔊 Com F	Ports														'×
Connect	Discon	nect Setup Clear	Ser	rd Dat	a	Stop D	ata	Star	t Throughput Sto	p Throughput	[erminal				
Port	Status	Option	RTS	DTR	стя	DSR	DCD	RI	Send Bytes	Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Re thre
COM7	Connect	9600/N/8/1: Flow RTSDTR				•			12,456	12,128	0	0	0	972	
COM8	Connect	9600/N/8/1: Flow RTSDTR							12,456	12,128	0	0	0	972	
COM9	Connect	9600/N/8/1: Flow RTSDTR							12,456	12,128	. 0	0	0	972	
COM10	Connect	9600/N/8/1: Flow RTSDTR				•		۲	12,456	12,124	0	0	0	972	
COM11	Connect	9600/N/8/1: Flow RTSDTR				•		۲	12,456	12,128	0	0	0	972	
COM12	Connect	9600/N/8/1: Flow RTSDTR				•		۲	12,456	12,128	0	0	0	972	
COM13	Connect	9600/N/8/1: Flow RTSDTR				•		۲	12,456	12,120	0	0	0	972	
COM14	Connect	9600/N/8/1: Flow RTSDTR			۲	•	۲	۲	12,456	12,128	• 0	0	0	● 972	
											•			*****	

• After selecting "Clear"

s ^{al} Com I	Ports														_ 🗆	×
Connect	Discon	nect Setup Clear	Ser	nd Dat	a	Stop [Data	Sta	t Throughput S	top Tł	nroughput	Terminal				
Port	Status	Option	RTS	DTR	стร	DSR	DCD	RI	Send Bytes		Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu t	Re thre
COM7	Connect	9600/N/8/1: Flow RTSDTR				٠		۲	I	0	0	0	0	0	0	
COM8	Connect	9600/N/8/1: Flow RTSDTR						۲		0	0	0	0	0	0	
COM9	Connect	9600/N/8/1: Flow RTSDTR						۲	1	0	0	0	0	0	0	
COM10	Connect	9600/N/8/1: Flow RTSDTR			۲	•	۲	۲		0	0	0	0	0	0	
COM11	Connect	9600/N/8/1: Flow RTSDTR						۲		0	0	0	0	0	0	
COM12	Connect	9600/N/8/1: Flow RTSDTR				•		۲		0	0	0	0	0	0	
COM13	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲		0	0	0	0	0	0	
COM14	Connect	9600/N/8/1: Flow RTSDTR			۲	٠	۲	۲		0	0	0	0	0	0	
•																Þ



4.1.9 Send Data/Stop Data

Send pattern data.

• When "Send Data" is selected.

🔊 Com I	Ports													- 5	'×
Connect	Discon	nect Setup Clear	Ser	nd Dat	a S	Stop D	ata	Star	t Throughput Sto	p Throughput	erminal				
Port	Status	Option	RTS	DTR	стร	DSR	DCD	RI	Send Byt <mark>e</mark> s	Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit hroughpu	Re thre
COM7	Connect	9600/N/8/1: Flow RTSDTR					۲	۲	12,456	12,128	0	0	0	972	
COM8	Connect	9600/N/8/1: Flow RTSDTR					۲		12,456	12,128	0	0	0	972	
COM9	Connect	9600/N/8/1: Flow RTSDTR					۲		12,456	12,128	0	0	0	972	
COM10	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲	12,456	12,124	0	0	0	972	
COM11	Connect	9600/N/8/1: Flow RTSDTR					۲	۲	12,456	12,128	0	0	0	972	
COM12	Connect	9600/N/8/1: Flow RTSDTR						۲	12,456	12,128	0	0	0	972	
COM13	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲	12,456	12,120	0	0	0	972	
COM14	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲	12,456	12,128	0	0	0	972	
•									****					*****	

• When "Stop Data" is selected.

se Com	Ports													- 5	×
Connect	Discon	nect Setup Clear	Ser	id Dat	a	Stop	Data	Sta	t Throughput Sto	p Throughput	Terminal				
Port	Status	Option	RTS	DTR	стร	DSR	DCD	RI	Send Bytes	Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Re thre
COM7	Connect	9600/N/8/1: Flow RTSDTR			۲	٠		۲	13,218	13,154	0	0	0	961	
COM8	Connect	9600/N/8/1: Flow RTSDTR			۲			۲	13,218	13,154	0	0	0	961	
COM9	Connect	9600/N/8/1: Flow RTSDTR						۲	13,218	13,162	0	0	0	961	
COM10	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲	13,218	13,162	0	0	0	961	
COM11	Connect	9600/N/8/1: Flow RTSDTR			۲			۲	13,218	13,154	0	0	0	961	
COM12	Connect	9600/N/8/1: Flow RTSDTR			۲	۲		۲	13,218	13,162	0	0	0	961	
COM13	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲	13,218	13,162	0	0	0	961	
COM14	Connect	9600/N/8/1: Flow RTSDTR			۲		۲	۲	13,218	13,162	0	0	0	961	
•															F

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.

🚰 Com Ports														- 🗆	×
Connect Disconnect	Setup		Cle	ar	Se	nd Da	ta Stop Data	Start Throughput	Stop Thr	oughput	Terminal				
Option	RTS	DTR	стร	DSR	DCD	RI	Send Bytes	Receive Bytes	Parity Error	Overrun Error	Framming Error	Transmit throughpu	Receive throughpu	Running time	
9600/N/8/1: Flow RTSDTR						۲	39,654	39,282	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR							39,654	39,282	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR							39,654	39,290	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR			۲		۲	۲	39,654	39,286	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR						۲	39,654	39,282	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR						۲	39,654	39,290	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR			۲		۲	۲	39,654	39,290	0	0	0	964	961	00:47:41	
9600/N/8/1: Flow RTSDTR			۲		۲	۲	39,654	39,290	0	0	0	964	961	00:47:41	
•															F



4.1.11 Terminal

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

🝠 TestVie	w V2.0													- 🗆 ×
Port Setting) <u>B</u> urning	g <u>W</u> indows <u>A</u> bout												
Con Setting abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk abcdefshikk	m mn mnop mnopg mnopgr mnopgrs mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst	A Windows About	× ab ab ab ab ab ab ab ab ab ab ab ab	COM cdefghh cdefghh cdefghh cdefghh cdefghh cdefghh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh	112 (96 ijkim ijkimno ijkimnop ijkimnop ijkimnop ijkimnop ijkimnop ijkimnop ijkimnop	q qr qrs qrst qrstuv qrstuv qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw	8/1: vx vxy vxyz vxyzA vxyzA vxyzA	Flow RTSDTF	3) X	CO abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig abcdeig	M7 (9600 hijkl hijklm hijklmno hijklmnop hijklmnop hijklmnop hijklmnop hijklmnop hijklmnop hijklmnop hijklmnop hijklmnop	n n n n n n n n n n n n n n	Flow RTS	DTR)
COM9 abcdelghijkl	(9600/N mnop mnopg mnopg mnopgrs mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst mnopgrst	/8/1: Flow RTSDTR) _ Jy Jy Jy Jy Jy Jy Jy Jy Jy Jy	× ab ab ab ab ab ab ab ab ab ab ab ab ab a	Colefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh cdefgh	13 (96 ijklm ijklmno ijklmnop ijklmnop ijklmnop ijklmnop ijklmnop ijklmnop ijklmnop	QQ/N/ qr qrs qrstu qrstuv qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw qrstuvw	8/1: vx vx vxyz vxyz vxyzA vxyzA	Flow RTSDTF B BC	(1) <mark>- (1) </mark>	CO abcdeig	M10 (960 hijkl hijklmn hijklmnop hijklmnopg hijklmnopg hijklmnopg hijklmnopg hijklmnopg hijklmnopg hijklmnopg hijklmnopg hijklmnopg	r rs rst rstu rstuvw rstuvw rstuvwx rstuvwxyz rstuvwxyz rstuvwxyz	A AB	SDTR) <mark>_ 🗆 X</mark>
🔊 Com P	orts		1		1					. 1 📼		1		- 🗆 ×
Connect	Discor	nnect Setup Clear	Ser	id Data	Stop	Data	Star	rt Inroughput	Stop Throug	input	Terminal J			
Port	Status	Option	RTS	DTR C	TS DSR	DCD	RI	Send Bytes	Rec	eive tes	Parity Error	Overrun Error	Framming Error	Transmit IA throughpu th
COM7	Connect	9600/N/8/1: Flow RTSDTR			•		0	258,7	50	258,330	0	0	0	960
COM8	Connect	9600/N/8/1: Flow RTSDTR				•	•	258,7	50	258,346	0	0	0	960
COM9	Connect	9600/N/8/1: Flow RTSDTR				•	-	258,7	50	258,354	0	0	0	960
COM10	Connect	9600/N/8/1: Flow RTSDTR				-	-	258,7	50	258,330	0	0	0	960
	Connect	9600/N/8/1: Flow RISDIR						258,/3	50	258,330	U ^	U 	0 •	960



4.2 TCP/UDP Port

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

4.2.1 Opening Ports

Select Port \rightarrow TCP/UDP Port from the menu.

s a l Te	stView	V2.0				
<u>P</u> ort	<u>S</u> etting	<u>B</u> urning	<u>W</u> indows	<u>A</u> bout		
<u>C</u> o	m Port					
<u> </u>	P/UDP P	ort				
<u>О</u> р	en					
<u>S</u> a	ve					
<u>E</u> xi	it					

4.2.2 Open TCP/UDP Port Configuration

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

s a	TestView V2	.0				
P	ort <u>S</u> etting <u>B</u> u	rnin	g <u>W</u> indows <u>A</u> bou	ıt		
Ś	Open TCP/	UDI	P Port			
ſ	TCP/UDP SET	JP				
	Connection Ty	pe	IP Adress	Start Port	Quantity	
	TCP Client	*	192.168.8.101	4001	8Ports 💌	
	None	~	0.0.0.0	4001	16Ports 🗸	
	None	~		4001	16Ports 🔽	
	None	~	0.0.0.0	4001	16Ports 🗸	
			ок с	ancel		

- "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 "<u>Com Ports</u>"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.

TestView V2	2.0			
Port <u>S</u> etting <u>B</u> u	urning	; <u>W</u> indows <u>A</u> bo	iut	
		' Port		
Connection T	ype	IP Adress	Start Port	Quantity
TCP Client	~	192.168.8.120	4001	16Ports 🗸
None	~	0.0.0.0	4001	16Ports 🗸
None	*	0.0.0.0	4001	16Ports 🗸
None	*	0.0.0.0	4001	16Ports 👻
		ок	Cancel	

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

🔎 TestView V	V2.0							
Port Setting	<u>B</u> urning <u>W</u> indows	<u>A</u> bout						
-								
de TCP/UDI	P Ports							
Connect/L	isten Disconnect	Clear Send Data	Stop Data Start Thou	ghput Stop Though	put Terminal]		
Port	Status	Source	Destination	Send Bytes	Receive Bytes	Transmit throughput	Receive throughput	Running 🛕 Time
Tcp_client	Connect	192.168.8.184:1151	192.168.8.120:4001	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1152	192.168.8.120:4002	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1153	192.168.8.120:4003	50,306	24,327	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1154	192.168.8.120:4004	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1155	192.168.8.120:4005	50,306	24,327	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1156	192.168.8.120:4006	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1157	192.168.8.120:4007	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1158	192.168.8.120:4008	50,306	24,327	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1159	192.168.8.120:4009	50,306	24,327	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1160	192.168.8.120:4010	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1161	192.168.8.120:4011	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1162	192.168.8.120:4012	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1163	192.168.8.120:4013	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1164	192.168.8.120:4014	50,306	24,255	1,077	981	00:00:3
Tcp_client	Connect	192.168.8.184:1165	192.168.8.120:4015	50,306	24,327	1,077	981	00:00:3 🗸
<								>



- TreatMark V2.0
 Control Links
 South State

 Text State
 South State
 Control Links
 C
- 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.

5	TestView V2.0								
<u>P</u> o	rt <u>S</u> etting <u>B</u> urning	g <u>W</u> indows <u>A</u> bout	t						
Ś	Open TCP/UDI	P Port							
	TCP/UDP SETUP-								
	Connection Type	IP Adress	Start Port	Quantity					
	TCP Server 🔽	192.168.8.184	4001	64Ports 🛩					
	None 🖌	0.0.0.0	4001	16Ports 🕶					
	None 💌	0.0.0.0	4001	16Ports 🕶					
	None 🖌	0.0.0.0	4001	16Ports 👻					
			maal						
	UK Cancel								



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

🖉 TestView	V2.0							
Port Setting	Burning Window	s <u>A</u> bout						
JCP/UDF	P Ports							
Connect/Li	sten Disconnect	Clear Send Data	Stop Data Start Thou	ghput Stop Though	put Terminal]		
Port	Status	Source	Destination	Send Bytes	Receive Bytes	Transmit throughput	Receive throughput	Running A
Tcp_server	Waiting	192.168.8.184:4001		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4002		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4003		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4004		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4005		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4006		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4007		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4008		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4009		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4010		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4011		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4012		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4013		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4014		0	0	0	0	00:00:0
Tcp_server	Waiting	192.168.8.184:4015		0	0	0	0	00:00:0 🗸
<								>

 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.

🔎 TestViev	v V2.0							
Port Setting	<u>B</u> urning <u>W</u> in	dows <u>A</u> bout						
🔊 TCP/UD	P Ports							
Connect/L	isten) Disconn	ect Clear Send	I Data Stop Data St	art Thoughput	Stop Thoughput	Terminal		
Port	Status	Source	Destination	Send Bytes	Receive Bytes	Transmit throughput	Receive throughput	Running Time
Tcp_server	Connect	192.168.8.184:4001	192.168.8.120:33075	139,226	120,827	0	0	00:03:06
Tcp_server	Waiting	192.168.8.184:4002	TCD-Server 10	168 8 184 40		0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4003				0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4004	abcdefghijklmnopqrstu	vwxyzABC vwxyzABCD		0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4005	abcdefghijklmnopgrstu	vwxyzABCDE vwxyzABCDEF		0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4006	abcdefghijklmnopqrstu abcdefghijklmnopqrstu	vwxyzABCDEFG vwxyzABCDEFGH		0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4007	abcdefghijklmnopgrstu abcdefghijklmnopgrstu	vwxyzABCDEFGH vwxvzABCDEFGH	J	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4008	abcdefghijklmnopgrstu abcdefghijklmnopgrstu	vwxyzABCDEFGH vwxvzABCDEFGH	JK JKL	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4009	abcdefghijklmnopgrstu abcdefghijklmnopgrstu	VWXYZABCDEFGH	UKEM UKEMN	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4010	abodefghijklmnopgrstu	VWXYZABCDEFGH		0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4011	abcdefghijklmnopgrstu	vwxyzABCDEFGH	JKLMNOPQ	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4012	abcdefghijklinnopqrstu	vwxyzABCDEFGH	JKLMNOPQRS	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4013	abedefghijklinnopgrstu	vwxyzABCDEFGH	JKLMNOPQRSTU	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4014	abcdefghijklmnopgrstu	vwxyzABCDEFGH vwxyzABCDEFGH	JKLMNOPQRSTUV	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4015	abcdefghijklmnopgrstu	vwxyzABCDEFGH vwxyzABCDEFGH	JKLMNOPQRSTUV JKLMNOPQRSTUV	0	0	00:00:00
Tcp_server	Waiting	192.168.8.184:4016	abcdefghijklmnopqrstu	vwxýzABCDEFG		0	0	00:00:00
<				f.				



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.

Save As						? 🔀
Savejn:	🚞 TestView		~	6	1 🖻	
My Recent Documents	com_config					
Desktop						
My Documents						
My Computer						
	File <u>n</u> ame:	I			~	Save
My Network	Save as type:	ini Files			*	Cancel

4.5 Exit

Terminate the program.



Chapter 5. Settings Menu

5.1 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.

5.2 Macro

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

🚅 TestVie	w V2.0	
Port Setting	g <u>B</u> urning	<u>W</u> indows <u>A</u> bout
	📌 Macr	• • • • • • • • • • • • • • • • • • • •
	F1	Test<20>Data<0d><0a>
	F2	Test<21>Data<0d><0a>
	F3	
	F4	
	F5	
	F6	
	F7	
	F8	
	F9	
	F10	
	F11	
	F12	
		Ascii Code + Hex Code Example: Test/20:Data/0dx/0a;
		OK Cancel

5.3 Font

Change fonts displayed in the terminal window.

Font			? 🔀
Eont: Aria O Arial Black O Arial Narrow O Arial Nounded MT Bol O Blackadder ITC O Blackadder ITC O Bodoni MT O Bodoni MT O Black	Font style: Regular Regular Italic Bold Bold Italic	Size: 8 9 10 11 12 14 16	OK Cancel
Effects	Sample AaBbYyZ: Script: Western	z	



5.4 Thread Priority

It's possible to control the Priority of Serial(Com port), TCP/UDP threads to be Highest, Normal, Lowes. Default Priority of Serial(Com port) is set to Highest, and Default Priority of TCP/UDP threads is set to Lowest.

In order to test Com port and TCP/UDP at the same time, set the same priority.

5.4.1 Serial Thread Priority

🚰 TestView V2.0	
Port Setting Burning Windows About	
Macro Eont for Terminal	
Serial Thread Priority → ICP/UDP Thread Priority → Lowest	

5.4.2 TCP/UDP Thread Priority





Chapter 6. Burning Menu

6.1 Overview

Burning tests are performed in order to see how stable the product is. Devices can be tested for performance with different communication speed, wait time, or data pattern.

6.2 Burning Test Setup

Burning test is composed of continuous data transmission and check. Hardware environment setup is necessary to serve this purpose. RS232 and RS422 setups are presented below.

6.2.1 RS232 Setup

For RS232 communication, DB9 connector or RJ45 connector is used. You need to setup the test environment by setting data lines and modem signals.

- Data line setup: Connect TX line to RX line.
- Modem signal setting :

Connect DTR to DSR and RI signals. (Do not connect RI signal when RJ45 connector does not support RI.)

Connect RTS to CTS and DCD

6.2.2 RS422 Setup

Since RS422 does not use modem signals, only connect data lines.

• Data line setup: Connect TX+ to RX+, and TX- to RX-.

Note Burning test is not available for RS485.

6.3 Com Burning

Select the beginning Com port number and set the number of ports to open. You can change baudrate and other settings in the option.



6.3.1 "Open Com Port"

- "Com Region": Designate COM port ranges.
 "Com Option": Set Baudrate, Data Bits, Parity Bits, Stop Bits
 "Flow Control": Not activated in this menu. Burning test handles flow control by itself.

🔊 Tes	stView	V2.0						C
<u>P</u> ort <u>s</u>	<u>S</u> etting	<u>B</u> urning	<u>W</u> ir	idows <u>A</u> b	out			
qO 🗠	oen Co	m Port						
Con	n Regio	n						
F	From	COM1	~	Quantity	24 Ports	~		
		COM1	*		0 Ports	~		
		COM1	~		0 Ports	~		
		COM1	~		0 Ports	*		
Con	n Optior	IS						
Вац	udrate	19200	*	Data Bits	8bits	*		
Pari	ity Bits	None	~	Stop Bits	1	~		
Flov	w Contro	ol						
	Non	Э			Xon/Xoff			
	✓ RTS	/CTS			DTR/DSR			
		ОК		Cancel				

6.3.2 "Com Port Burning" Window

🚰 Com Pa	ort Burning							_ [□ ×
C Time	10	Setup	Minute	Start	Stop	o	Clear	Save	
ເ⊂ Cour Test Wait	nter 100 2048 Time 3000	•	Bytes mSec	×	В	uttons			•
+* Ports	Test Count	Tx-Rx	DTR-DSR	DTR-RI	RTS-CTS	RTS-DCD	Average	Status	
0.0110		Error	Error	Error	Error	Error	0.0004	141.2	
COMB		U	U	U	U	U	0.00%	VVait	_
COM4		U	U	U	U	U	0.00%	VVait	_
COM5		U	U	U	U	U	0.00%	Wait	_
СОМБ		U	U	U	U	U	0.00%	VVait	_
COM/		U	U	U	U	U	0.00%	Wait	_
COM8		0	0	0	0	0	0.00%	Wait	_
COM9	Res	sults ⁰	U	U	U	U	0.00%	Wait	_
COM10		0	0	0	0	0	0.00%	Wait	_
COM11		0	0	0	0	0	0.00%	Wait	_
COM12		0	0	0	0	0	0.00%	Wait	_
COM13		0	0	0	0	0	0.00%	Wait	
COM14		0	0	0	0	0	0.00%	Wait	_
COM15		0	0	0	0	0	0.00%	Wait	
COM16		0	0	0	0	0	0.00%	Wait	
COM17		0	0	0	0	0	0.00%	Wait	
COM18				0	0	0	0.00%	Wait	



- Setup part
 - Time: Perform burning tests for the time entered in this field. (Unit: Minutes)
 - Counter: Perform burning tests for the number of times specified in this field.
 - Test: Define the number of bytes to send each time. (Unit: Bytes)
 - Wait Time: Define the interval between each data transmission in mSec. When this value is too small, more errors are likely to occur.

Buttons part

- Start: Start the burning test.
- Stop: Stop the burning test.
- Clear: Clear the results.
- Save: Save the results.
- Results part: Display test results in real-time..
 - Ports: Port number
 - Test Count: The number of data transmission
 - Tx-Rx/DTR-DTR/RTS-CTS/RTS-DCD Error: Error count
 - Average: Data transmission success rate
 - Status: Current status
 - ٠



6.3.3 Test Method

• Select either time or counter and valid values to the field. Then click 'Start' to begin the test.

TestView Port Setting	V2.0 Burning Windo	ws About						
Com Po	rt Burning	_						
Crime	10		Minute 🛛	Start	Stop		Clear	Save
© Cour	ter 100							
O COUL								
Test	2048	*	tes					
Wait	Time 3000		nSec					
Ports	Test Count	Tx-Rx Error	DTR-DSR Error	DTR-RI Error	RTS-CTS Error	RTS-DCD Error	Average	Status
COM1		0	0	0	0	0	0.00%	Wait
COM2		0	0	0	0	0	0.00%	Wait
COM5		0	0	0	0	0	0.00%	Wait
COM6		0	0	0	0	0	0.00%	Wait
COM7		0	0	0	0	0	0.00%	Wait
COM8		0	0	0	0	0	0.00%	Wait
COM9		0	0	0	0	0	0.00%	Wait
COM10		0	0	0	0	0	0.00%	Wait
COM11		0	0	0	0	0	0.00%	Wait
COM12		0	0	0	0	0	0.00%	Wait
COM13		0	0	0	0	0	0.00%	Wait
COM14		0	0	0	0	0	0.00%	Wait
COM15		0	0	0	0	0	0.00%	Wait
COM16		0	0	0	0	0	0.00%	Wait
COM17		0	0	0	0	0	0.00%	Wait
COM18		0	0	0	0	0	0.00%	Wait
COM19		0	0	0	0	0	0.00%	Wait
COM20		0	0	0	0	0	0.00%	Wait

• Repeat tests with different values in time or counter field to determine the performance of the device. Results are presented in the results part.

TestView	V2.0							
Port Setting	<u>B</u> urning <u>w</u> inad	ows <u>A</u> bout						
Com Po	rt Burning							
OTHE	10		Maria					
OTime			winute	Start	Stop		Clear	Save
💿 Coun	nter 100							
Test	2048	~	Bytes					
141.5	T 0000							
VVait	Time 3000		msec					
		1						
Ports	Test Count	Tx-Rx Error	DTR-DSR Error	DTR-RI Error	RTS-CTS Error	RTS-DCD Error	Average	Status
COM1	19	0	0	0	0	0	100.00%	Running
COM2	19	0	0	18	0	18	63.00%	Running
COM5	19	0	18	18	18	18	26.00%	Running
COM6	19	0	18	18	18	18	26.00%	Running
COM7	19	0	18	18	18	18	26.00%	Running
COM8	19	0	18	18	18	18	26.00%	Running
COM9	. 19	0	18	18	18	18	26.00%	Running
COM10	19	0	18	18	18	18	26.00%	Running
COM11	17	1	17	17	16	16	23.00%	Running
COM12	19	0	18	18	18	18	26.00%	Running
COM13	 19 	0	18	18	18	18	26.00%	Running
COM14	17	1	17	17	17	17	23.00%	Running
COM15	19	0	18	18	18	18	26.00%	Running
COM16	19	0	18	18	18	18	26.00%	Running
COM17	- 19	0	18	18	18	18	26.00%	Running
COM18	19	. 0	18	18	18	18	26.00%	Running
COM19	19	0	18	18	18	18	26.00%	Running
COM20	19	0	18	18	18	18	26.00%	Running



6.4 TCP Burning

This option tests the port using TCP protocols. Actual function is identical to that of COM port, but flow control or line status part is omitted, since TCP does not support such signals.

6.4.1 "TCP Port Burning" Open Features

- "TCP Socket Region":
 - IP Address: IP Address of the device server or embedded module
 - Start Port: Port number of the device Server or embedded module
 - Quantity: The number of ports to open

s∰ Te	estView V2.0					X
<u>P</u> ort	<u>S</u> etting <u>B</u> urning <u>₩</u>	<u>(</u> indo	ws <u>A</u> bout			
5 01 T	CP Port Burning					
_ [™]	CP Socket Region					
	IP ADDRESS		START PORT	Quantit	у	
	192.168.8.120		4001	16Ports	~	
	0.0.0		4001	64Ports	~	
	0.0.0.0		4001	64Ports	~	
	0.0.0.0		4001	64Ports	~	
		0K	Cancel			



6.4.2 "TCP Port Burning" Window

There are three regions in the burning window: Setup part, buttons part, and results part.

Testriew v2.t		Julilingi			
Port Setting I	Burning Windows	s About			
⊙Time S€	tup	Minute	Start	Stop Clear	Save
💿 Counter	100		.		
Test	2048	✓ Bytes	B	uttons	
Wait Time	3000	mSec			
Client IP Addres	ss Ports	Test Count	Tx-Rx Error	Average	Status 🔹
92.168.8.120	4001			0.00%	
92.168.8.120	4002			0.00%	
92.168.8.120	4003			0.00%	
92.168.8.120	4004	Resu	ts	0.00%	
92.168.8.120	4005			0.00%	
92.168.8.120	4006			0.00%	
92.168.8.120	4007			0.00%	
92.168.8.120	4008			0.00%	
92.168.8.120	4009			0.00%	
92.168.8.120	4010			0.00%	
92.168.8.120	4011			0.00%	
92.168.8.120	4012			0.00%	
92.168.8.120	4013			0.00%	
92.168.8.120	4014			0.00%	
92.168.8.120	4015			0.00%	
93168 8 120	4016			0.00%	

• Setup part

- Time: Perform burning tests for the time entered in this field. (Unit: Minutes)
- Counter: Perform burning tests for the number of times specified in this field.
- Test: Define the number of bytes to send each time. (Unit: Bytes)
- Wait Time: Define the interval between each data transmission in mSec. When this value is too small, more errors are likely to occur.

Buttons part

- Start: Start the burning test.
- Stop: Stop the burning test.
- Clear: Clear the results.
- Save: Save the results.

• Results part: Display test results in real-time..

- Client IP Address: IP address of the remote TCP server
- Ports: Port number of the remote TCP server
- Test Count: The number of data transmission
- Tx-Rx Error: Error Count
- Average: Data transmission success rate
- Status: Current status



6.4.3 Test Method

• Set the IP address and the port number of the remote TCP server.

🔎 TestViev	v V2.0					
Port Setting	<u>B</u> urning <u>W</u>	indov	ws <u>A</u> bout			
🔊 TCP Po	rt Burning					
	ket Region					
IP	ADDRESS		START PORT	Quantit	у	
192.18	8.8.120]	4001	16Ports	~	
D.O.O.0	1]	4001	64Ports	~	
0.0.0.0)]	4001	64Ports	~	
0.0.0.0)]	4001	64Ports	~	
		ЭК	Cancel			

• Select either time or counter and valid values to the field. Then click 'Start' to begin the test.

d TestView V2.0 -	(TCP Port Bu	urning]			
s [∰] <u>P</u> ort <u>S</u> etting <u>B</u> urn	ing <u>W</u> indows	<u>A</u> bout			- 8
 ○ Time ○ Counter 100 Test 200)	Minute	Start Sto	p Clear) Save
1651 20-		Dytes			
Wait Time 300)0	mSec			
Client IP Address	Ports	Test Count	Tx-Rx Error	Average	Status
192.168.8.120	4001			0.00%	
192.168.8.120	4002			0.00%	
192.168.8.120	4003			0.00%	
192.168.8.120	4004			0.00%	
192.168.8.120	4005			0.00%	
192.168.8.120	4006			0.00%	
192.168.8.120	4007			0.00%	
192.168.8.120	4008			0.00%	
192.168.8.120	4009			0.00%	
192.168.8.120	4010			0.00%	
192.168.8.120	4011			0.00%	
192.168.8.120	4012			0.00%	
192.168.8.120	4013			0.00%	
192.168.8.120	4014			0.00%	
				0.00%	
192.168.8.120	4015			0.0070	



• Repeat tests with different values in time or counter field to determine the performance of the device. Increase the wait time when you test with large data.

d TestView V2.0 - [TCP Port Bu	rning]				
s [∰] <u>P</u> ort <u>S</u> etting <u>B</u> urnii	ng <u>W</u> indows	<u>A</u> bout				_ 8 >
○ Time○ Counter100		Minute	Start	Stop	Clear	Save
Test 204	3	 Bytes 				
Wait Time 300)	mSec				
Client IP Address	Ports	Test Count	Tx-R> Error	¢	Average	Status
192.168.8.120	4001		7	0	100.000%	Running
192.168.8.120	4002		7	0	100.000%	Running
192.168.8.120	4003		7	0	100.000%	Running
192.168.8.120	4004		7	0	100.000%	Running
192.168.8.120	4005		7	0	100.000%	Running
192.168.8.120	4006		7	0	100.000%	Running
192.168.8.120	4007		7	0	100.000%	Running
192.168.8.120	4008		7	0	100.000%	Running
192.168.8.120	4009		7	0	100.000%	Running
192.168.8.120	4010		7	0	100.000%	Running
192.168.8.120	4011		7	0	100.000%	Running
192.168.8.120	4012		7	1	85.000%	Running
192.168.8.120	4013		7	0	100.000%	Running
192.168.8.120	4014		7	0	100.000%	Running
192.168.8.120	4015		7	0	100.000%	Running
192.168.8.120	4016		7	0	100.000%	Running



Chapter 7. Windows Menu

7.1 Tile





7.2 Cascade

s el Te	stView V2	2.0																		
Port	Setting B	urning <u>V</u>	(indows <u>A</u>	<u>}</u> bout																
sal c	OM14 (96	00/N/8/		TRRTS)																
80	Сом15	(9600/N	/8/1: Flo	w DTBBT												ſ				
ab ab		10/000																a		
ab e	D SM COM	16 (960	U/N/8/1.1	FIGWIDTE																
ab a	ња 🖧 🚰 С	ОМ17 (9	3600/N/8/																	
a ab	babab babab	COM1															-			
ab a	D ab ab a	sa co	M19 (960	0/N/8/1:	Flow DTRI														ิ โ	
ab e	ab ab a	80	COM20 ()	0600/N/9																
ab a	b ab ab a	b ab ab	COM20 (3000/14/0	TI TIUW D	innio)														
ab ab	b ab ab a b ab ab a	b ab ab	See Com F	Ports														E		
ab a	b ab ab a b ab ab a	b ab ab	Connec	t Disco	nnect S	etup Clear	Se	nd Data	a St	op Da	ata S	start Th	roughput Stop Thro	ughput Termi	nal					×
ab a	b ab ab a b ab ab a	b ab ab		1	1							1								
ab e	b ab ab a b ab ab a	babab	Port	Status		Uption	RIS	DIR	LIS	DSR		RI	Bytes	Bytes	Error	n	Error	throughpu	through	
ab a	D ab ab a	b ab ab	COM1	Connect	9600/N/8/1:	Flow DTRRTS	-		•	•	•	•	37,530	37,410	0	0	0	0		
ab e	b ab ab a	b ab ab	COM2	Connect	9600/N/8/1:	Flow DTRRTS			٠	•		۲	36,408	36,288	0	0	0	0		
ab a	b ab ab a	b ab ab	COM5	Connect	9600/N/8/1:	Flow DTRRTS			۲	۲		۲	36,288	36,168	0	0	0	0		
ab ab a	b ab ab a	b ab ab	COM6	Connect	9600/N/8/1:	Flow DTRRTS			۲				36,408	36,208	0	0	0	0		
ab e	ub ab ab a	b ab ab	COM7	Connect	9600/N/8/1:	Flow DTRRTS						•	36,408	36,232	0	0	0	0		
ab ab	b ab ab a	b ab ab	COMB	Connect	9600/N/8/1:	Flow DTRRTS							36,168	35,984	0	0	0	0		
ab e	b ab ab a b ab ab a	b ab ab	COM9	Connect	9600/N/8/1:	Flow DIRRIS	-	-		-		-	36,408	36,216	U	U	U	U	-	
ab e	ub ab ab a ub ab ab a	b ab ab	COMIU	Connect	9600/N/8/1:				-				36,288	36,168	0	0	0	0		
ab e	b ab ab a	b ab ab	COM12	Connect	9600/N/8/1	Flow DTPPTS							36,200	36,000	0	0	0	0		
ab e	b ab ab a b ab ab a	b ab ab	COM12	Connect	9600/14/0/1	Flow DTRRTS			ă				36.048	35,856	0	0	0	0		
ab a	b ab ab a b ab ab a	b ab ab	COM14	Connect	9600/N/8/1:	Flow DTRRTS						- Te	36.048	35,856	0	0	0	0	_	
ab e	b ab ab a b ab ab a	b ab ab	COM15	Connect	9600/N/8/1:	Flow DTRRTS			ö	ē		ē	35,928	35,808	0	0	0	0		
ab a	b ab ab a b ab ab a	b ab ab	COM16	Connect	9600/N/8/1:	Flow DTRRTS			۲				36,288	36,104	0	0	0	0		
ab e ab e	b ab ab a b ab ab a	b ab ab	COM17	Connect	9600/N/8/1:	Flow DTRRTS			۲			۲	36,168	36,048	0	0	0	0		
ab a	b ab ab a	b ab ab	COM18	Connect	9600/N/8/1:	Flow DTRRTS			۲			۲	36,648	36,472	0	0	0	0		
8	b ab ab a b ab ab a	b ab ab	COM19	Connect	9600/N/8/1:	Flow DTRRTS			۲				35,928	35,808	0	0	0	0		
	ab ab a	b ab ab	COM20	Connect	9600/N/8/1:	Flow DTRRTS			۲				36,048	35,928	0	0	0	0		
	ab ab ab ab ab a a a a	b ab ab b ab ab b ab ab b ab ab b ab ab ab ab																		
		ab ab ab ab																		
		ab																		
			<															_	>	
			ab ab	abcdefgh abcdefgh	iklmnopgrstu ijklmnopgr <u>stu</u>	vwxyzABCDEFGHUKL vwxyzABCDEFGHUKL	MNO MNOP													
			ab	abcdefgh abcdefgh	iklmnoparstu ijklmnoparstu	vwxyzABCDEFGHUKL vwxyzABCDEFGHUKL	MNOP(2 2R												
				abcdefgh abcdefgh	iklmnoparstu Ijklmnoparstu	VWXYZABCDEFGHUKL VWXYZABCDEFGHUKL	MNOP	2RS 2RST												
				abcdefgh	ijklmnopqrstu	vwxyzA														



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.

stemBase TestView Uninstall	
Uninstall Status Please wait while SystemBase TestView is removed from your computer.	15
Uninstalling SystemBase TestView	
	Cancel

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



