TRST-A10/TRST-A15/TRST-A00 Printer
VirtualCOMportEmulator
forWindows
User'sManual

FirstEdition   :April21,2009
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TOSHIBA TEC SINGAPORE PTE LTD

Thisdocumentdescribestheprecautionsforusingt   heTRST-A10/TRST-A15/TRST-A00VirtualCOM
portEmulatorforWindows.

Thisdocumentassumesthatthereaderisfamiliarw   iththefollowing:
● GeneralcharacteristicsofWindows
● GeneralcharacteristicsofTRST-A10/TRST-A15/TRST-   A00printer

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  MicrosoftCorporationintheUnitedStatesand/oro   thercountries.
* TheofficialnameofWindowsisthe   "MicrosoftWindowsOperatingSystem   ".

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TRST-A10/TRST-A15/TRST-A00Printer–VirtualCOMport   forWindowsUser'sManual

Rev.No.	Date	Pages	Description
01	April21,2009	---	Originalissue
02	Nov26,2010	5	AddedTRST-A00model

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1   Operation Environment

1.1 Supported OS

Operating System – x86	Supported / Not Supported
Windows XP	Yes
Windows 2000	Yes

1.2 Supported Languages

This utility supports only English Language

1.3 File Names

Name of the executable file of the tool	TECVCOMConfig.exe
Name of the sys file	com0com.sys, USBPrintServ.exe, StartService.exe

1.4 Supported Printers

1) TRST-A10 STD/KOREA model
2) TRST-A10 China model
3) TRST-A15 STD/KOREA model
4) TRST-A15 China model
5) TRST-A00 STD/KOREA model
6) TRST-A00 China model
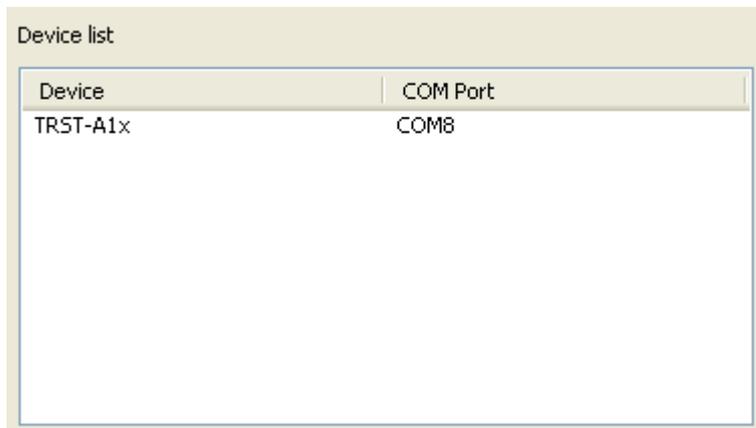
2

2 **Functions**

2.1 MainWindow

"TEC Virtual COM Port Config" is the name of the tool.   When executed, tool will show below screen.

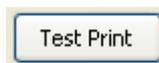*Fig 2. Main screen of the Toshiba Serial Port Emulator*

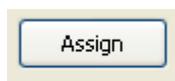| Name	TEC Virtual COM Port Config
Type	Dialog Box
Components	<List Control> "Device" "COM Port" <Button1> "Test Print" <Button2> "Assign" <Button3> "Delete" <Button4> "Exit"
Values	-
Description	This dialog box provides the primary user interface for COM port assignment, deletion and test print operations. **<Button - Test Print>** Prints the test print data onto the device selected. Hot key : Alt + T **<Button - Assign>** Invokes the "Assign COM Port" dialog box. Hot key : Alt + A **<Button - Delete>** Invokes the "Confirm Delete" dialog box Hot key : Alt + D **<Button - Exit>** Closes the Tool. Hot key : Alt + E
Dependency	-

2.2DeviceListBox

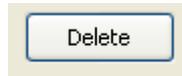| Name	Device List Control
Type	List Control
Values	Dynamic – based upon devices connected to the machine
Description	This option is to choose the device to which, the user wants to assign virtual COM port. On installing the tool, a list of devices connected to user's system will get listed with their currently assigned ports. User can select the device of his choice to perform either of the following operations: 1. Test Print the device data. 2. Assign a new COM port. 3. Delete the previous COM port assignment done
Dependency	The List Box should load the previously saved settings of the devices connected. In case a new device is connected it should get detected and should be listed in display. On deletion of previous COM port assignment, the device list should be updated in display with a "None" COM port value for that device. On assignment of new COM port the changes done should be updated in device list.

2.3TestPrint

Name	Test Print
Type	Button
Values	-
Description	This button sends the Printer's test print data to get printed. The application will open the assigned COM port and will write the test print data on the COM port. The data to be printed will be provided by TSE.
Dependency	-

2.4Assign

Name	Assign
Type	Button
Values	-
Description	This button pops up an "Assign COM Port" dialog. This dialog gives option to assign a new COM port to the selected printer device.
Dependency	-

2.5Delete

Name	Delete
Type	Button
Values	-
Description	This button pops up a "Confirm Delete" dialog. In this dialog box user confirms the deletion of the selected COM port assignment.
Dependency	-

2.6AssignCOMPort

Fig 3. Assign COM port dialog box

Name	Assign COM port
Type	Dialog Box
Components	<Static Text> "Device:" <Edit Box> To output Device name. <Static Text> "COM Port which is assigned currently:" <Edit Box> To output current assigned COM Port. <Static Text> "COM Port to be assigned newly:" <Combo Box> List of available COM Ports for assignment. <Button1> "Execute" <Button2> "Cancel"
Values	-
Description	This dialog box allows the user to assign a new COM port from the available free COM ports. Hot key for "COM Port to be assigned newly": Alt + N **<Button - Execute>** It assigns the new COM Port to selected device and returns to the previous screen i.e. "TEC Virtual COM Port Config" dialog. Hot key : Alt + E **<Button - Cancel>** Returns to the previous screen without doing any COM port assignment. Hot key : Alt + C
Dependency	-

2.7 Device

Name	Device
Type	Static Text, Edit Box
Components	<Edit Box> This read-only edit box displays the device name for which new configuration has to be done
Values	Dynamic based on selected device.
Description	This edit box displays the device for which the new assignment has to be done
Dependency	-

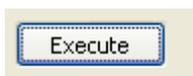## 2.8 COM port which is assigned currently

Name	COM port which is assigned currently
Type	Static Text, Edit Box
Components	<Edit Box> This read-only edit box displays the currently assigned port.
Values	Dynamic based on selected device's port.
Description	This edit box displays the previously assigned COM port for the device. If this is a new device, having no previous assignment, the edit box should display "None"
Dependency	-

2.9 COM port which is assigned newly

COM port to be assigned newly: COM8:

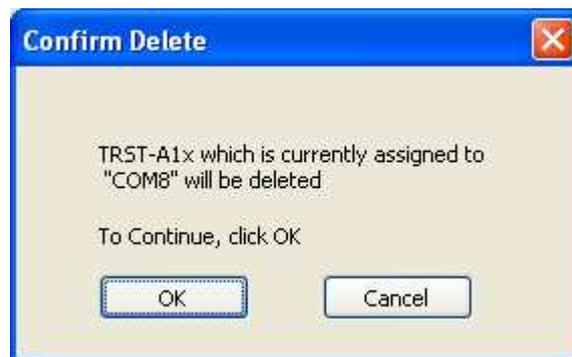| Name	Device
Type	Static Text, Combo Box
Components	<Combo Box> This Combo box lists COM ports based upon their availability.
Values	COM1-COM32 (if no COM Ports are in use).
Description	This Combo box lists free COM ports. For example, it displays ports COM5-COM32 if all ports (from 5 to 32) are free.
Dependency	The Combo box lists only those COM ports which are available/free on the machine

2.10 Execute

Execute

Name	Execute
Type	Button
Values	-
Description	It assigns the new COM Port to selected device and returns to the previous screen i.e. "TEC Virtual COM Port Config" dialog.
Dependency	-

2.11 Cancel

Name	Cancel
Type	Button
Values	-
Description	Returns to the previous screen without doing any COM port assignment.
Dependency	-

2.12 ConfirmDelete

Name	Confirm Delete
Type	Dialog Box
Components	<Static Box> Dynamic Text <Static Text> "To Continue, click OK" <Button1> "OK" <Button2> "Cancel"
Values	-
Description	This dialog box will be popped up when user presses "Delete" button on the main screen of the tool. This dialog box confirms with user, before deleting the COM port assigned to device. After deleting, the COM port is freed and can be assigned to other devices
Dependency	After a COM port assignment is deleted by "Confirm Delete" dialog, COM port should be freed and also should get listed in "COM port to be assigned newly" combo box.

2.13About

Name	About TEC Virtual COM Port Config
Type	Static Text
Values	-
Description	About dialog box displays the name of tool, its version and copyrighted year.
Dependency	-

3   Installation

3.1WindowsXP

1) Run "Install Package.bat" file

2) When "New Hardware Found Wizard" pops up, click on browse button and select "com0com.inf" file. Click Next button and finish the driver installation. (Several times)

3) Reboot a system

4) Turn on the printer and connect to the system via USB

5) Run "TECVCOMConfig.exe" to assign COM port

3.1Windows2000

1) Run "Install Package.bat" file

2) Reboot a system

3) Turn on the printer and connect to the system via USB

4) Run "TECVCOMConfig.exe" to assign COM port

4   Uninstallation

Run "Uninstall Package.bat" file and the reboot a system and a printer.

5   **Restrictions**

To support the Real Time Command via Virtual Com port Emulator, the "USB Type" of printer needs change to USB-COM.
If an application outputs the real time command with this tool, the printer cannot respond the status without changing "USB Type" to USB-COM.

Below figure shows the "Configuration printout". This is available through prniter's diagnostic feature or through our "Commander Utility".

```
Communication Interface
  Interface Type    : RS232/USB
  Parameters
    Baud Rate       : 38400
    Data Bits       : 8
    Stop Bits       : 1
    Parity          : None
    Flow Control    : DTR/DSR
    Reception Errors : Print '?'
    Receive Buffer  : 4K Bytes
    USB Select Type : Fixed Type
    USB Type        : USB-COM
    CTS Control     : Disable
```

Configurationprintout.