

User Manual of Serial to WiFi Converter, Model VE10W

Wiring Architecture

RS232 Wiring Diagram				RS485 V	Wiring Diag	ram
Serial	Signal	VE10W	Signal	Serial	VE10W	Signal
Device		Pin		Device	Pin	-
Pin no's		no's		Signal	no's	
2	RX	3	TX	D-	1	D-
3	TX	2	RX	D+	2	D+
5	GND	5	GND			
7	RTS	8	CTS			
8	CTS	7	RTS			

RS422 Wiring Diagram			
Serial	VE10W	Signal	
Device	Pin	-	
Signal	no's		
R-	3	T-	

T+

R-R+

4

1

2

R+

T-

T-

LED Indicators



SYS (Red)	: Power	When the Power is on, the LED in ON
LAN (Green)	: Network	When the LAN signal is detected, the LED will be ON.
TX (Red)	: Data sent	When data is sent out from the network, the LED will blink.
RX (Green)	: Data received	When data is received in the network, the LED will blink.

When you finish the steps mentioned above and the LED indicators are as shown, the converter is installed correctly. You can use the Software Setup CD to setup the IP Address. To proceed with the Advance parameter setup, you can also use a web browser (IE or Netscape) to continue the detailed settings.



DS Tool Software Setup

DS Tool uses UDP broadcast packets to query and configure converters on the network. Insert the CD. Select "DSTool_ODM_Setup" folder. Double click "DSTool_ODM_Setup.exe". When the "Installing DSTool" screen pops up, double click the "Start" icon for installing.

🛃 My Computer			
File Edit View Favorites Tools Help		AT	
🕙 Back 🔹 🌍 🔹 🏂 🔎 Search 🄀 Folder	s 📰 •		
Address 🚇 CD Drive (E:)		🕑 🔁 Go	
System Tasks Image: Constraint of the system information DSTool ODM Wew system information DSTool ODM Dstool ODM Image: Organise of the system of t			
	🔏 Installing DSTool		
Other Places Image: Control Places My Documents Image: Control Planel	2	Destination Directory C:\Program Files\DSTool 0DM Bequired: 5230 K	
Details (Received and the second seco		Available: 4230528 K	Browse
		Start	<u>Exit</u>

After installation, "Installation was completed successfully" screen will pop up. Double click the "OK" icon. Choose any of the 2 options in the next screen.

😤 Installing DSTool	The installation of XWare is finished
Installation was completed successfully 100%	□ Launch DSTool Now
Postod File Device Configuration Cold Configuration Cold Configuration Cold Configuration Previous Previous	

If you choose "Launch DSTool Now" then the Device Configuration manual screen will appear.



Serial to Wi-Fi Converter Configuration

Broadcast

After finishing DSTool installation, launch DSTool, double click "Broadcast" button. It will detect the existence

converters in the network.

Select the converters you wish to add and double click "Add" button.

The table will depict the converter details such as IP address, MAC Address, Device Name and Status.



Device List

In the Device List icon, you will find all the added converters.

P DSTool						
File Device Configuration COM Configu	ration Op	tions Help				
Broadcast Add Device Bevice	COM U	map Wizard	vcom Wizard Wizard	e Firmware d Wizard		
DSTool	🔊 B	efresh	[Device List	alive not available	warning
🖻 🎓 192.168.0.125	+ Numbe	IP address	MAC Address	Name	Status	
ÿ port1 ≪a v⊂om Lia	1	192.168.0.125	00:12:77:55:55:55	DeviceServer-DEFAULT	Alive, Logged in	

Double click on the device will allow you to configure other converter settings.

🍠 DSTool						
File Device Configuration COM Configu	ration Op	otions Help				
Broadcast Add Device Berrore	D COM	Mzard	vcom Wizard Wizard	re Firmware rd Wizard		
DSTool	19 R	efresh	l	Device List	alive not available	warning
192.168.0.125	+ Numbe	IP address	MAC Address	Name	Status	
g port1	1	192.168.0.125	00:12:77:55:55:55	DeviceServer-DEFAULT	Not Available	
⊡ • • • 192.168.0.126	2	192.168.0.126	00:12:78:00:5C:F8	DeviceServer-DEFAULT	Alive, Logged in	
]
🗉 🔣 Setup Wizard]
- 🏄 IP Collection						
System Log						



General

After listing of device IP in "Device List" item, you can click the IP as shown in the table.



General information as "Model", "IP Address", and "MAC Address", "Firmware Version" "Device Name / Location" and device working status ... etc appear. You can configure some parameters and modify device name and location

Security

Serial to Wi-Fi converter's Security includes Access IP, Mask list and Administration security.

J DSTool		
File Device Configuration COM Cor	figuration Options Help	
Broadcast	Nep COM	
E DSTool	General Security Networking Wireless Notification Management	t Upgrade Firmware Save/Load
Device List	Access IP Table	Password
9 port1	IP1 Mask Enabled	New Password
COM List	IP2 Mask Enabled	
Setup Wizard IP Collection	IP3 Mask Enabled	Confirm New Password
🔄 🧕 System Log	IP4 Mask Enabled	Old Reserverd
	IP5 Mask Enabled	
	IP6 Mask Enabled	
	IP7 Mask Enabled	Change Password
	IP8 Mask Enabled	
	IP9 Mask Enabled	
1	ID10	

The Access IP Table specifies the IP address and Subnet that can access the device. The access is based on IP and Mask combination. If the access is open to all hosts, Do NOT enable this function. You can assign a password for Administrator's Management & Security.

After modifying configuration, be sure to Save the changes by using "Apply Only" or "Apply and Save".

IP12	Mask	Enabled	
IP13	Mask	Enabled	
IP14	Mask	Enabled	
IP15	Mask	Enabled	
IP16	Mask	Enabled	
🍤 Refresh			🌛 Apply Only 🏾 🌛 Apply and Save



Serial to Wi-Fi converter can support both type of IP such as Static IP or DHCP/BootP IP configuration. After modifying configuration click the

icon of "Apply Only" or "Apply and Save" for finishing IP configuration.

Wireless

🍠 DSTool	
File Device Configuration COM Configuration	Options Help
Broadcast Add Bevice Bevice	Vices Visard Visard
E DSTool Gene	eral Security Networking Wireless Notification Management Upgrade Firmware Save/Load
	work Type Infra
- 🖧 VCOM List	SSID Reigntek 🖉 🔎 SSID Scan
Setup Wizard IP Collection	
- 😨 System Log - Wire	aless Encryption
c	No Encryption
•	WEP
	WEP Encryption Key
	Hexadecimal Input : 10 digits(WEP64)
	© 1 0225625880 C 3
	C 2 C 4
0	TKIP
	ALS WPA-PSK (Previously Shared Key)
	Key Renewal Period :

You can use the wireless item for configuring Serial to Wi-Fi Converter's Wi-Fi parameters. "SSID Scan" is for searching the available wireless access point and to select your AP device. "Wireless Encryption" is for setup parameters as encryption type and key. Save the changes by using "Apply Only" or "Apply and Save".

Notification



Serial to Wi-Fi converter can support 3 ways of event notification e.g "SNMP Trap", "Email Notification" and Syslog Notification.

Broadcast Device List Device List Device List Device List Device List Device List Setup Vizit List Contemport

Networking

Options Help

Wizard

Using Static IP 🔲 Using DHCP/BOOTP

255.255.255.0

192.168.0.125

•¶

General Security

Wire Wireless

Static IP Settings IP Address 192.168.0.125

Netr

Gatway

DNS1 DNS2

Ð

VCOM Wizard Wizard Wizard

nt | Upgrade Firmware | Save/Load |

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Management

In addition to DSTool, Serial to Wi-Fi Converter can also be managed by Web and Telnet consoles as well as by SNMP.

J DSTool	
File Device Configuration COM Configu	ration Options Help
Broadcast Add Bevice Bevice	VCOM UZARA WIZARA WIZARA
E 🧔 DSTool	General Security Networking Wireless Notification Management Upgrade Firmware Save/Load
🖃 🖷 Device List	
	Veb Management Enable Goto Web Management
	Telnet Management Enable Goto Telnet Management SNMP Management Enable

The Web and Telnet functions are enabled as default. To enable or disable the management consoles, you can use the "Configuration" and "Management" of DSTool for configuring. To enable SNMP trap support, you

have to check the SNMP Management Enable device and

specify SNMP settings including Community, Location, Contact, and Trap Server IP. Upgrade Firmware

🍠 DSTool	
File Device Configuration COM Configu	uration Options Help
Add Device	VCON Wizard Wizard
E- 🗐 DSTool	General Security Networking Wireless Notification Management Upgrade Firmware Save/Load
🖻 🖷 Device List	
E 192.168.0.125	Firmware Image
y port1	Browsing
E Setup Wizard	
IP Collection	
😼 System Log	

To update firmware of the device, save the firmware file in your host PC. Go to "Configuration", and "Update Firmware". Specify the file location by Browsing and continue operation by Update. The device will reboot after firmware updating.

Note: All parameters will restore to default after the firmware update, except for the device IP address.

Save/Load

After finishing setup, click "Apply and Save" button.

The changes are valid after rebooting the device.

"Load default" is all parameters changes to factory's default except network setting.

"Reboot Device" is for rebooting device and needs to broadcast again to search the device.

"Import" is for retrieving saved configuration file in to the current device.

"Export" is saving the current parameters onto a file and export to a current host for saving.

J DSTool	
File Device Configuration COM Config	uration Options Help
Broadeast Device	VCCM Device Firmware Uisard Uisard Werd Wired
E- Distant	General Security Networking Wireless Notification Management Upgrade Firmware Save/Load
Bevice up of 192158.0.125 South 1925 South 1925 South 1925 South	Save Configuration to Flash Load Default Import / Export Import / Export
	S Refresh
I	



Port Port Configurations is for configuring Serial parameters.

File Device Configuration COM Configuration Options Help
File Device Configuration COM Configuration Options Help File Device Configuration COM Configuration Options Help File Device Configuration Com Visional Visional Visional File Device List Visional Visional Visional Visional Visional File Device List Setup Visional Visional Visional Visional Visional Visional File Device List Setup Visional Setup Visional Port Port <t< td=""></t<>
Fluch Senial to Ethernet Uota 8 bitler Atter 0 (0-65535) ms The received data will be queueing in the buffer unit all the delimiters are matched. When the buffer is full (4K Bytes) or after "Ituch S2E data buffer" timework the data will allo be sent. Force TX interval time 0 0 (0-65535) ms 1 The received data will be queueing in TX buffer unit TX interval time, data 3 The received data will be queueing in TX buffer unit TX interval time is timeout or TX buffer in full (4K Bytes), the data will allo be sent. 0 is disable. Image: The free time to the target of the data will allo be sent. Image: The free time to the data will allo be sent. Image: TX buffer unit TX interval time is timeout or TX buffer in full (4K Bytes), the data will allo be sent. 0 is disable.

Port Alias : Remarks for the port. Baud rate : From 110bps to 460.8kbps Parity : No, Even, Odd, Mark, Space Data Bits : 5, 6, 7, 8 Stop Bits: 1, 2 (1.5) Flow Control : None, XON/XOFF, RTS/CTS, DTR/DSR Interface : RS232 Performance : "Throughput" : guarantees highest transmission speed or "Latency" : guarantees shortest response time.

Delimiter Settings

For advanced data packing options, you can specify delimiters for Serial to Ethernet and / or Ethernet to Serial communications. You can define 4 delimiters (00~FF, HEX) for each way and until the

delimiters are received the data will not be transmitted successfully.

"Flush Ethernet to Serial Data Buffer After" is time for which data will be stored before getting transmitted between Ethernet and Serial.

"Force TX interval time" is for specifying the timeout when no data has been transmitted and the timeout is reached or TX buffer is full (4K Bytes), the queued data will be sent. If you want to disable and the parameter is setting "0". (factory default)

Service Mode : UDP Mode

When device is configured as TCP Server, it gives the connected serial device a unique IP : Port address on a TCP/IP network that it can be accessed by other host on the network. Device as TCP Server waits passively to be contacted by the host computer, allowing the host computer to establish a connection and get data from the serial device.

J DSTool		X
File Device Configuration COM Configu	ration Options Help	
Broadcast	Image: Stand	
Device List Device Li	porti Service Mode TCP Server Mode TCP Service Mode	
Setup Wizard Setup Wizard System Log	ICP Server Mode Misc. Data Port 100 mSt. Auto Scan Control Port 101 Alive Check 0 Multilink 0 045535) Seconds Alive Check 0	
	Max Connections 1 Image: Second	
	Disconnect	
	Disconnect	
	S	
	PRefresh	ave



This operation mode supports up to 5 simultaneous connections, so that multiple hosts can collect data from the same serial device at the same time.

Service Mode : Virtual COM Mode

This option enables the Serial Port in the Converter to act and be controlled as PC's COM port for Windows. One PC can have as many as COM ports on the network without the limitation of PC's physical slots. The Virtual COM ports on the network can also be shared by multiple hosts.

Service Mode : TCP Client Mode

When Serial to Wi-Fi converter is configured as TCP Client, it allows the connected serial device to initiate the TCP connection to remote host software when needed. When connected, the data is transmitted bi-directionally and till the data transmission is finished, the TCP connection will be closed by TCP Client. The connect-on-demand TCP Client operation helps the host computer to manage high number of remote devices that exceeds the maximum simultaneous TCP connections allowed. Serial to Wi-Fi converter supports up to 5 simultaneous TCP Client connections for redundant system considerations

Notification

Port status can be notified to administrator by email, SNMP trap, or System Log.

Several events of notification include :

<u>DCD changed</u>: When DCD (Data Carrier Detect) signal changes, indicating the modem connection status has changed, the event will be triggered.

<u>RI changed</u>: When RI (Ring Indicator) signal changes, indicating the incoming of a call, the event will be triggered.

<u>DSR changed</u>: When DSR (Data Set Ready) signal changes, indicating that the data communication equipment is powered off, the event will be triggered.

<u>CTS changed</u>: When CTS (Clear To Send) signal changes, indicating that the transmission between computer and DCE can proceed.

<u>Port connected</u>: In TCP Server Mode, when the device accepts an incoming TCP connection, this event will be trigger. In TCP Client Mode, when the device has connected to the remote host, this event will be trigger. In Virtual COM Mode, when Virtual COM is ready to use, this event will be trigger.

<u>Port disconnected</u>: In TCP Server/Client Mode, when the device looses the TCP link, this event will be trigger. In Virtual COM Mode, When Virtual COM is not available, this event will be trigger.

To enable activate the notification, specify the event type and the notification methods.

The details of SNMP trap Server, Email SMTP server, or Log server IP should be configured first properly in device "Configuration" "Management".

VCOM List

You can monitor the COM port status from the "VCOM" function. The monitored items can also be defined by the "Select Monitor Items" icon. The COM ports must be configured first before monitoring the status.

DSTool offers 5 Setup Wizards to help you manage Serial Wi-Fi Converter devices as a group.

J DSTool							
File Device Configuration COM Configu	ration Options	Help					
Add Bevice Bevice Ma		Wizard .	vcom Wizard Wiza	ce Firmware rd Wizard			
⊡				VCOM Lis	t	🛃 Sele	ct Monitor Items
192.168.0.125	+ Number	VCOM	Settings	Device Name	IP Address	MAC	Status
VCOM List							
Setup Wizard							
Sustem Log							
3 System Log							



Virtual COM Wizard 🍠 DSTool 6 Wizard Add Devic e Lis 192.168.0.125 VCOM List Welcome to Wizard Center Setup Wizard Vitual COM Wizard Serial Tunnel Wizard Group IP Wizard Group Setup Wizard Group Firmware Wizard Please select a wizard you need Virtual COM Wizard m Log Serial Tunnel Wizard Group IP Wizard Group Setup Wizard Group Firmware Wizard

DSTool offers one of the easiest way to add serial COM ports over the network by the Virtual COM Wizard. Serial Wi-Fi Converter COM port driver is installed when you install DSTool. Select the Virtual COM Wizard from Setup Wizard. There are only 3 steps to follow up.

Select the available ports of Serial Wi-Fi Converters on the network.

🍠 DSTool		
File Device Configuration COM Configu	ration Options Help	
Broadcast Add Bevice Bevice Map	Com Vigner Com Vigner Wigner	
🖃 🗐 DSTool	Select Serial Port(s)	
Perios List Page 192,168,0.125 Page 182,168,0.125 Setup Wizard Serial Tunnel Wizard Group Setup Wizard Group Setup Wizard Group Firmware Wizard Group Firmware Wizard Polection System Log	Available Serial Ports Selected Serial Ports Image: Selected Serial Ports Image: Selected Serial Ports Image: Selected	

Continue by configuring the Serial settings of the Serial ports. In Performance mode, there are "Throughput" mode and "Latency" mode. In Throughput mode, the throughput is high. In Latency mode, the response time is low.

J DSTool		
File Device Configuration COM Configu	ration Options Help	
Add Broadcast Add Device Bevice Mar	p com vcom vcom vizard vizard vizard vizard	
DSTool Device List Device List Setup Wizard Virtual COM Wizard Group Setup Wizard Group Setup Wizard Group Firmware Wizard Group Firmware Wizard Group System Log	Serial Port Settings Baudrate 38400 Parity No Parity No Data Bits 8 Interface RS232	•





Specify the Virtual COM port range and continue the operation by checking the COM port table

Serial Tunnel Wizard

The Serial Tunnel Wizard gives you the option to transparently pair two devices over the network.



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Group IP Wizard



When you have more than one device to configure, use Group IP wizard to configure all IP addresses of the devices remotely.

Broadcast Searching New Devices			
New Devices 119216810.2 00:B0:3367:43:00, Click "checked" to assign a valid IP			
New Devices 19216810.2 00:80:3357:43:00, Click "checked" to assign a valid IP			
192.168.10.2 00:80:33:67:43:00, Click "checked" to assign a valid IP			
192.168.10.2_0408130003356000, Ulick "checked" to assign a valid IP,			
Concel Class All Colema All Avid			
Cancer Crean Ann Select All Add			
A lot of IPs need to be re-config? Click here Your best choice. Group IP Wizard.			

Select Group IP Wizard after opening DSTool, or use Broadcast and findmore than one Converters on the network and double click the button of"Click here" at right side lower corner.

Search the devices in local network (i.e. same subnet), or search by an IP range. Select the devices

🖉 DSTool	Select Device(s)
File Device Configuration COM Configuration Options Help	Available Specified Model Device(s) Selected Device(s)
Image: Second	☐ 192 193 10 2_00 80 33 57 43 30 , Clek "shecked" ☐ 192 193 10 2_04 BB CC 99 66:00, Clek "shecked"
	Clear All Select All Clear All Select All

Select the devices for group IP configuration and define the IP addresses range or by DHCP.

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Network Settings
🔽 Using Static IP 📄 Using DHCP
Assign Static IP Range
IP From 192.168.10.5
IP To 192.168.10.10
Netmask 255.255.255.0
Gatway
DNS1
DNS2
🖳 Auto Scan

Click NEXT to confirm the setup and the IP configuration is finished, you will see the IP addresses for the devices



Group Setup Wizard



Group Setup Wizard can help you to copy the configuration of one device to other converters. You can select the items to be copied. Go to "Setup Wizard", "Group Setup Wizard", and choose "Next" to continue.







Select the Source device for the configuration and Destination devices.



Click NEXT to confirm and finish the wizard.

Groups Updating			
Group Updating	Time will be	14 Seconds (worst case)	<u>III</u>
Press Next to sta	art group setup.		
Done			
Ø	Thank you for click "Next" t	using Group Set o use this wiza	cup Wizard, ard again .
192.168.10.0	5, Set OK		



Group Firmware Wizard



To update firmware for a group of devices can be as easy as 4 steps of Group Firmware Wizard



Select the device model as Serial to Wi-Fi Converter DS-11-W, and select available converters on the network for the upgrade





Specify the firmware image and select NEXT. Confirm the firmware upgrade and continue operation. DSTool will upgrade firmware of the converter and reboot again to finish

Select Firmware Image	
Firmware Image	Browsing
Updating	
Updating Firmware Time will be 300 Seconds (worst cas Reboot After Updated This is the last step of this wizard, press "Next" to start update firmware.	

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IP Collection

Dynamic DHCP IP settings find the changing IP addresses.

P DSTool				
File Device Configuration COM Configu	ration Options Help			
Broadcast Add Device Remove	COM Unmap	vcom Wizard Wizard Wizard		
DSTool	General Security Network	king Wireless Notification Manage	ement Upgrade Firmwa	are Save/Load
Perce List Perce List Port 182,188,0125 Port (ICDM3) Port 2016 Setup Wizard Seind Turnel Wizard Group Ple Wizard Group Ple Wizard Port 2016 Port 2017 Port 2016 Port 2017 Port 2017	Model Industrial 1-port RS232// LAN IP Address 192168.0.125 WLAN IP Address Disabled DeviceServer-DEFAULT DeviceServer-DEFAULT Using SNTP Time Sert SNTP Server IP [pool-rip.org Time Zone [GMT-05:00]Eastern Tim	422485 to 802 11 b/g WLAN Device LAN MAC Address 00.12.7755 5555 WLAN MAC Address 00.12.78:00.5C:F8 00.12.78:00.5C:F8 Ver Port 123 IP Address 196.180.150 Get Cur Report Interval 10	Server Version 1.1el 5000 ent Host Seconds	Power Power Networking Locate On
	Refresh		🔄 🕹 Apply Only	Apply and Save
P DSTool				
File Device Configuration COM Configu	ration Options Help			
Broadcast Add Bevice Remove		vcom Wizard Wizard Wizard		
DSTool	+ IP Address	Device Name Model		Last Reported Time

DSTool supports auto IP reporting function to report the current IP address of the Serial to Wi-Fi converter units to administrator. To enable the function, check "Auto IP Report" in "Configuration", "General". Specify the host that the device should report IP to, or define current host as the report host. Be sure to define the Report Interval time. Zero means disabled Go to the IP Collection function of the main menu and find the converters auto IP report list

P DSTool				
File Device Configuration COM Configure	ration Options Help			
Broadcast Bevice Bevice	COM COMPT	vcom Device Fir Wizard Wizard W:	mware izard	
🖃 🐗 DSTool	+ IP Address	Device Name	Model	Last Reported Time
Cevice List Cevice List Cevice List Cevice List Cevice Vizad Cevice Vizard System Log	192.168.0.125	DeviceServer-DEFAULT	DS-11-₩	Fri Oct 19 09:00:00 2007

......

You can use a calendar at the button of "System Log" screen for searching the history data of log massages.





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Web Console Configuration

Here you can verify the connections & settings. Connect a PC to the Converter. The operating system can be Windows 95, 98, ME, XP, 2000. The "Hyper Terminal" utility should be installed on your PC (see Figure 4.1). Connect the RS232 port of the Converter to the PC COM port & the Ethernet (RJ45) port of the Converter to the PC's LAN port.

Hyper Terminal for TCP/IP WinSock

Initiate a Hyper Terminal from the Start Menu in Windows (see Figure 4.1), give a terminal name, choose an icon, and press "OK" button (see Figure 4.2).







After "OK" button is pressed, Figure 4.4 appears. Enter the converter's IP address (e.g. 192.168.0.10) at the "Host address:" field and the Socket port number set for the Serial Port 1 at the "Port number:" field (e.g 4660). (The Socket type of the Serial Port 1 should be "TCP Server".)



After "OK" button is pressed, Figure 4.5 appears. If the Hyper Terminal connects with the converter successfully, the time clock at the "left lower" corner "Connected hh:mm:ss" will start counting.

	ie) 🧏			
My	🏶 tcp10 - HyperTerminal			
	File Edit View Call Transfe	r Help		
	06 28 200	£		
My M	-			
Shor	Connected 0:00:24 Auto	detect TCP/IP SCROL CAP	NAM Casture	
				🧭 Recycle Bin
1	start 🛛 😂 🚳	🏶 tcp10 - HyperTerminal		3 3 0 2:26 PM
73				

Figure 4.5

Hyper Terminal for COM Port

Initiate another Hyper Terminal as a COM Port Terminal (in Figure 4.3, select COM 1 or other COM port instead of "TCP/IP (Winsock)"). Set the COM port Properties to be the same as those set for the Serial Port of the converter.

1				
My 🌒 tcp10 - Hyper	Connect To	2 🛛		
D 📽 😕 🕉	top10	ou want to dial		
M	Country/region: United States (1) Area code: 445			
1	Connect using: COM1 COM1 COM2 TCP/IP (Wnsock)			
Disconnected Microsoft Outlook		ALM.	Capture	
Shortcut to Etm				
				Recycle Bin
🐴 start 🛛 🧔 (🖇 🧠 tcp10 - HyperTerminal	<u>n</u>		€ € € 2:13 PM

Figure 4.6

Data Transmission

When all steps described above are finished, type any characters on the COM Port Terminal and check if the typed characters are also displayed on the TCP/IP Winsock Terminal. Alternatively, check if the characters typed on the TCP/IP Winsock Terminal are also displayed on the COM Port Terminal. If yes, then all settings are correct and the converter can operate properly.



Pin outs

RJ45 Port



RS-232 Pin Assignment

The pin assignment scheme for a 9-pin male connector on a DTE is given below. $(\frac{1}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2})$ PIN 1 : DCD PIN 2 : RXD PIN 3 : TXD PIN 4 : DTR

PIN I	5)	4		3		2		1	(
PIN 5	0	0	0	0	0	0	0	0	1
DIN 0	,		a				0	-	1

PIN 1 : DCD PIN 2 : RXD PIN 3 : TXD PIN 4 : DTR PIN 5 : GND PIN 6 : DSR PIN 7 : RTS PIN 8 : CTS PIN 9 : DC 5V

RS-422 Pin Assignment

The pin assignment scheme for a 4-pin RS-422 is given below.



PIN 1 : R-PIN 2 : R+ PIN 3 : T-PIN 4 : T+