Korenix JetPort Serial Device Server

User's Manual

March 2006



www.korenix.com

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1 Introduction of JetPort

Jetport 5201 is a smart one RS-232 to Ethernet serial device server. It connects the serial port of devices such as card readers, measurement devices, or data acquisition terminals, over Ethernet just like locally attached. JetPort serial device server eliminates the limitation of single host and transmission distance of traditional serial communications by creating access for multiple hosts in Ethernet. The compact size and various mounting options further create installation flexibility.

This chapter describes:

- Serial to Ethernet Technology Overview
- Product features
- Product specification
- Package checklist

Serial to Ethernet Technology Overview

Korenix JetPort serial device servers provide perfect solution to manage serial devices via Ethernet in flexible ways, such as TCP server, TCP client, UDP, or Windows virtual COM. JetPort creates a transparent gateway for the serial communication to Ethernet. If the control program uses network standard API, you can choose TCP or UDP as the communication protocol. If the control program uses COM port, you can install the Windows driver to add virtual COM ports.

Product Features

JetPort 5201 has the following features:

- Smart one-port RS232 to Ethernet Solution
- World's highest serial speed: 460.8kbps
- JetPort Commander, Windows utility for auto discovery, multiple device setting and monitoring.
- Versatile serial operation options: Virtual Com, Serial tunnel, TCP server, TCP client, UDP
- Max. 5 Virtual COM, TCP server, TCP client data links
- Configuration by Windows, Web, telnet
- Event warning by Email, SNMP trap
- Virtual COM driver for Windows NT/2000/XP/2003
- Fixed TTY driver for Linux 2.4.x

Product Specification

Network Interface	Network Interface					
Ethernet	10/100BaseTX					
Connector	RJ45					
Protection	Built-in 1.5 KV magnetic isolation					
Protocols	ICMP, IP, TCP, UDP, DHCP, BootP, ARP / RARP, Telnet, DNS, SNMP MIB II, HTTP					
Serial Interface						
Interface	RS-232					
Connectors	male DB9					
Data Rates	110 bps to 460.8 Kbps					
Data Bits	5, 6, 7, 8					
Parity	odd, even, none					
Stop Bits	1, 1.5, 2					
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, GND, DCD					
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR					

Serial Line Protection	15KV ESD					
Software Utility						
Utility	JetPort Commander for Windows NT/2000/XP					
	Device discovery					
	Auto IP report					
	Device setting (run-time change, no rebooting)					
	 Access control list 					
	Group setting					
	 Device monitoring 					
	 Serial port monitoring 					
	 Log info 					
	 Group Firmware update batch 					
Serial mode	Virtual Com / TCP Server / TCP Client / LIDP / Serial Tunnel					
	TCP Alive Check Timeout					
	Inactivity Timeout					
	 Delimiter for Data Packing 					
	 Force TX Timeout for Data Packing 					
Multiple link	5 Hosts simultaneous connection: Virtual Com / TCP server / TCP Client					
Virtual Com	Windows NT/2000/XP/2003					
TTY Drivers	Fixed TTY driver for Linux 2.4.x					
Configuration	Web console, Telnet console, JetPort Commander for Windows NT/2000/XP					
Power Requirem	ents					
Power Input	24VDC (9-30VDC)					
Power Line	1 KV Burst (EFT), EN61000-4-4					
protection	 0.5 KV Surge, EN61000-4-5 					
Mechanical						
Dimensions	54.4mmx79.5mmx27mm					
Regulatory Approvals	FCC Class A, CE Class A					
, ppi o vaio	RoHS					
Environmental						
Operating Temperature	0 to 55°C (32 to 131°F)					
Operating Humidity	5% to 95% (Non-condensing)					
Storage Temperature	-20 to 85°C (-4 to 185°F)					

Package Checklist

JetPort is shipped with the following items:

- Korenix JetPort Serial Device Server
- 100-240V Power adapter
- Mounting kit and 4 screws
- 4 Foot pads
- Documentation and Software CD
- Quick Installation Guide



If any of the above items is missing or damaged, please contact your local sales representative.

2 Quick Start

JetPort serial device server can be configured by Windows utility, web browser, or Telnet console. Advanced management features include SNMP support and Email alert. JetPort Commander is a powerful Windows utility that supports device discovery, group setup, group firmware update, and monitoring functions.

This chapter introduces how to quick start JetPort

- Hardware installation
- Software setup

Hardware Installation

Panel and Interfaces



Reset Button

The Reset button provides users with a quick and easy way to restore the default settings of JetPort. Press reset button for 10 seconds. Release after Power LED blinking orange. JetPort will restore to default value including default IP address (192.168.10.2), and no password. When the Power LED turns green, the device is ready to function.

LED Indicators

There are 3 LEDs, indicating real-time system status.

LED	Color	Indication
PWR/ Ready	Red	On: Power is on and booting up. Blinking: Indicates an IP conflict, or DHCP or BOOTP server did not respond properly.
	Green	On: Power is on and functioning normally. Blinking: Located by Administrator's Location function.
	Off	Power is off, or power error condition exists.
Link / ACT	Orange	Blinking: 10 Mbps Ethernet connection.
	Green	Blinking: 100 Mbps Ethernet connection.
	Off	Ethernet cable is disconnected, or has a short.
TX/RX	Orange	Serial port is receiving data.

Green		Serial port is transmitting data.			
	Off	No data is being transmitted or received through the serial port.			

Connecting the Power

Connect the power jack input with the enclosed 12VDC power adapter, or 24VDC power input. The power LED will show red color until the system is ready. If the IP setting is running correctly, the power LED will turn green.

Connecting to the Network

Connect the Ethernet cable to the JetPort 10/100M Ethernet port. If the 10M Ethernet is working, the Link/Act LED will blinking orange. If the 100M Ethernet is working, the Link/Act LED will blinking green.

Connecting to the Serial Device

Connect the serial device to JetPort by RS232 interface cable. JetPort serial port is a standard DB9 male port.

Software Setup

Install JetPort Commander

1. Insert the CD and auto-run the program. If the setup does not auto-run, select "JetPort 5201", and "Operation System", run JetPort Setup.exe to install Windows utility, JetPort Commander.

월 Installing Jeth	ort Commander	×
	If you have installed previous version of J please close it first before con Destination Directory C:\Program Files\JetPort Commander	JetPort Commander, tinving.
	Required: 4583 K Available: 3072492 K	<u>B</u> rowse
	[Start	<u>E</u> xit

- 2. When the installation is finished, there are three options:
 - ✓ Launch JetPort Commander Now: Start configurations.
 - ✓ Visit Korenix registration page: Register products to Korenix.
 - ✓ Launch JetPort later: Start configurations later.



 Broadcast the JetPort unit: JetPort Commander will broadcast the network and search all available JetPort units in the network. The default IP address of JetPort is "192.168.10.2".

Broadcast Searching	Product Tip: If you have multiple Network Adapters (i.e. wireless and wired), please activate ONLY ONE Network Adapter that can locate the JetPort devices, and CLOSE the rest Network Adapters. Otherwise, JetPort Commander may broadcast INCORRECTLY.	· · · · · · · · · · · · · · · · · · ·
New Devices		
	MAC 00:12:77:12:23:45 Original IP 192.168.10.2 ✓ Using Static IP ✓ Using Static IP IP Address 192.168.10.2 Netmask 255.255.255.0 Gatway 192.168.10.2 DNS1	
Cancel Clear All Select All Add	🕰 Auto Scan	
A lot of IPs need to be re-config? Click here Your best choice. Network Setup Wizard.	Cancel OK	

4. **Configuring the JetPort unit:**

4.1 Click on the JetPort unit and select "Add" for further configuring the unit.

4.2 Select "Static IP" if you want to specify the network parameters, or select "DHCP", or "BootP" if you want dynamic configuration for the JetPort unit.

- 5. Configuring the serial port as COM port:
 - 5.1 Go to "Configuration", and choose the "device" and the "port". Select "Serial Settings" to configure the serial parameters

🚳 JetPort Commander							
File Device Configuration COM C	onfiguration He	elp					
Broadcast	Hap DOM	NI Wiza	vcom Wizard Mizard	vice Firmware Zard Wizard			
JetPort	🧐 Refresh	1	С	onfiguration	alive not available	warning	
🖻 🍈 192.168.10.2	Number + IP	address	MAC Address	Name	Model	Status	
port1	1 192.	.168.10.2	0A:BB:CC:99:66:00	JETPORT5201-DEFAULT	JetPort5201	Alive, Logged in	
Setup Wizard							
🔌 Virtual COM Wizard	Serial Set	ttings Service	e Mode Notificatio	on			
- 🥀 Group Setup Wizard	port1						
Serial Tunnel Wizard	Port Álias	e Deut					
Group IP Wizard							
IP Collection 	Baudrate	460800	_	Stop Bits 1		Performance Thro	oughput 💌
	Parity	No	-	Flow Control No Flow	-		
	Data Bits	8	•	Interface RS232			

5.2 Select "Service mode", "Virtual COM Mode" and press "Map Virtual COM" to map the port to the COM port.

Serial Settings Service Mode Notification	
port1 Service Mode Virtual COM Mode 🗨	Select a Virtual COM Name
Virtual COM Mode	COM2 COM4
Virtual COM Settings	COM6 COM7
	COM8 COM9 COM10
Multilink Max Connections	COM11 COM12 COM13
1	COM14 COM15
Destination Host VCOM Name	COM15 COM17 COM18
Waiting for VCOM connect	
Waiting for VCOM connect	CancelOK

Congratulations! You have finished JetPort configurations with Virtual COM mode. You can also use web or telnet console by the JetPort IP address.

JetPort serial device server provides powerful Windows management tool for multiple device management.

This chapter introduces major functions in JetPort Windows Commander

- Server Configuration
 - Broadcast
 - > Configuration
 - General
 - Locate
 - > Security
 - > Networking
 - > Notification
 - > Management
 - > Firmware Update
 - > Save / Reload
- Port Configuration
 - Port Serial Settings
 - Port Service Mode
 - Port Notification
- Setup Wizard
 - > Virtual COM Wizard
 - > Serial Tunnel Wizard
 - > Group IP Wizard
 - Group Setup Wizard
 - > Group Firmware Wizard
- IP Collection
- Monitor

Server Configuration

Server configuration covers all settings for the device. Before you start, you need to add the devices first in the configuration list.

Broadcast

After installing JetPort Commander, you can broadcast for all available devices on the network.

Choose "Broadcast" button in the quick bar, and start to search. Select the device you wish to add and click "Add".



Configuration

In the Configuration menu, you will find the added device in the list. Double click on the device will continue to configure rest of the device settings. The "Refresh" Button will update the latest list of added available devices.

JetPort Commander						
File Device Configuration COM C	onfiguratio	n Help				
Broadcast		Unmap COM	vcom Wizard ard	vice Firmware Zard Wizard		
⊡⊶@ JetPort ⊟⊶ ⊗ Configuration	🍤 Re	efresh	С	onfiguration	alive not available	warning
🖻 🍈 192.168.10.2	Number	+ IP address	MAC Address	Name	Model	Status
🧊 port1	1	192.168.10.2	0A:BB:CC:99:66:00	JETPORT5201-DEFAULT	JetPort5201	Alive, Logged in
Monitor						
E- 🔨 Setup Wizard						
Group Setup Wizard						
- K Group Firmware Wiza						
🛛 🛶 🔍 Serial Tunnel Wizard						
🦂 🧞 Group IP Wizard						
IP Collection						
System Log						

General

The General section lists information of "Model", "Firmware Version", "IP Address", and "MAC Address".

You can modify Device Name and remark Location information.

Using SNTP Time Server: Enable Time Server by specifying SNTP server IP and Port.

Auto IP Report: If this device uses DHCP or BootP IP, enable Auto IP Report will report its dynamic IP address to the specified host regularly. You can use "Get Current Host" to assign the IP report to be sent to current host. Specify "Report Interval" as to how often the IP address should be sent, zero means no report will be sent.

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

⊡-@ JetPort	General Security Networking Notification Management Update Firmware Save/Load
 Configuration ☐ ☐ 192.168.10.2 ☐ Ø port1 ☐ Monitor ☑ Setup Wizard ☑ System Log 	Model Version JetPort5201 0.97a IP Address MAC Address 192.168.10.2 00:12:77:12:23:45
	Device Name/Location
	JETPURTS20T-DEFAULT
	Using SNTP Time Server V Auto IP Report
	SNTP Server IP Port pool.ntp.org 123 Time Zone 0 (GMT+08:00)Taipei Image: Current Host Report Interval 0 0 Seconds
Apply Only 🗼 Apply	and Save Product Tip: Always save your configurations to validate the changes with 2 options. <u>Apply Only:</u> Only apply the change one time without saving. When rebooting the device, the changes will not exist. <u>Apply and Save:</u> The change will be applied and save in
Locate the Device	Flash. When rebooting the device, the changes are still
JetPort Commander can iden	tify one device among the others by the IP address with the "Locate
On" function in General Menu	I. Select the "Locate On" Inction and the PWR/Ready

LED will blink Green continuously until you select the "Locate Off"

Security

JetPort Security includes access list and administration security.

Access List

The Access IP Table specifies the IP address and subnet that can access to the device. The access is based on IP and netmask combination.

If the access is open to all hosts, do NOT enable this function.

Administration Security

You can assign password to protect others from changing the configurations on the device.

If you assign password, you will need to give password every time when you access Windows, Web, or Telnet consoles. The password will also validate on Setup Wizard configuration.

You can input max. 12 characters as password.

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

General Security Net	working Notification Ma	anagement Update	Firmware Save/Load					
Access IP Table Password								
IP1	Mask 0.0.0.0	🔲 Enabled	New Password					
IP2	Mask 0.0.0.0	🔲 Enabled						
IP3	Mask 0.0.0	🔲 Enabled	Confirm New Password					
IP4	Mask 0.0.0.0	🔲 Enabled	J Old Password					
IP5	Mask 0.0.0.0	🔲 Enabled						
IP6	Mask 0.0.0.0	🔲 Enabled	Charace Deserved					
IP7	Mask 0.0.0.0	🔲 Enabled	Change Password					

Networking

JetPort supports both Static IP or DHCP/BootP IP configuration. After modifying configuration, be sure to validate the changes by using "Apply Only" or "Apply and Save".

General Secur	ity Networking Notification Management Update Firmware Save/Load
Vsing Static	PIP 🔽 Using DHCP/BOOTP
Static IP Setting	35
IP Address	192.168.10.2
Netmask	255.255.255.0
Gatway	192.168.10.3
DNS1	168.95.1.1
DNS2	

Notification

JetPort supports event notification by SNMP trap, email, or system log.

SNMP notification

To activate SNMP notification, check "SNMP management enable" from "Management" menu and assign the "community", "location", "contact info", and Trap Server.

General Security Networking N	Notification Management Update Firmware	Save/Load
🔽 Web Management Enable	Goto Web Management	
🔽 Telnet Management Enable	Goto Telnet Management	
SNMP Management Enable)	
SNMP Management Settings		
Community		
Location		
Contact		
Trap Server1		
Trap Server2		
Trap Server3		
Trap Server4		

The length of community is from 1 to 31, which cannot be left blank and do NOT include ";" mark.

1

The length of Location and Contact information is from 0 to 255, which is optional.

The Trap Server supports domain name format, and requires at least one Trap Server information to activate the setting.

Select SNMP Trap in notification menu. Specify the notification event type first and enable SNMP management in Management menu.

General Security Networking	Notification Management Update Firmware Save/Load
SNMP Trap	Email Notification 🦳 Syslog Notification
SNMP Settings	
Notified Items	
🔽 Hardware Reset (Cold Star	t) 🔽 IP Changed
🔽 Software Reset (Warm Sta	rt) 🔽 Password Changed
🔽 Login Failed	Access IP Blocked

- > Hardware Reset (Cold Start): Rebooting JetPort from power plug will trigger the event
- Software Reset (Warm Start): Rebooting JetPort from "Reboot Device" function from "Save/Load" menu will trigger the event.



- Login Failed: Using wrong password in console will trigger the event
- > IP Changed: Changing network setting will trigger the event
- Password Changed: Changing the password will trigger the event
- Access IP Blocked: Report blocked IP addresses

Email Notification

Enabling Email notification will open a windows for SMTP settings.

Assign SMTP server, and if Authentication is required for the SMTP server, check the authentication box and specify the users name and password.

JetPort supports sending notification to max. 4 email addresses.

General Security Networking Notification Management Update Firmware	Save/Load
SNMP Trap Email Notification Syslog Notification	n
SNMP Settings Email Settings	
Notified Items	
🔽 Hardware Reset (Cold Start) 🛛 🔽 IP Changed	
✓ Software Reset (Warm Start) ✓ Password Changed	
I▼ Login Failed I▼ Access IP Blocked	
SMTP Settings	
SMTP Server Port	
21	
Authentication Required	
Email List	
Email Address 1	
Email Address 2	
Email Address 3	
Email Address 4	
N	

System Log Server Notification

Enabling Syslog Notification will open Syslog Settings window.

Specify Log Server IP, or select "Using Current Host's Log Server" to specify current host as the log server.

General Security Networking Notification Management Update Firmware Save/Load
SNMP Trap Final Notification Syslog Notification
SNMP Settings Email Settings Syslog Setttings
Notified Items
I Hardware Reset (Cold Start) I IP Changed
✓ Software Reset (Warm Start) ✓ Password Changed
Image: Variable of the second seco
System Log Settings
Server IP Port
0 Using Current Host's Log Server

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

Management

In addition to JetPort Windows Commander, JetPort can also be managed by Web and Telnet consoles.

To enable or disable the management consoles, go to "Configuration" and "Management". JetPort enables Web and Telnet consoles by default. To disable Web or Telnet consoles, uncheck the boxes.

"Go to Web Management" will open web browser and enter web console of JetPort.

"Go to Telnet Management" will open Telnet session and enter telnet console of JetPort.

General Security Networking Notif	ication Management Update Firmware Save/Load
🔽 Web Management Enable	Goto Web Management
🔽 Telnet Management Enable	Goto Telnet Management

Choose "Apply Only" or "Apply and Save" to validate the changes.

Update Firmware

You can find up-to-date firmware of JetPort in Korenix website download section. http://www.korenix.com/support_downloads.htm

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.

General Security Networking Notification Management	Update Firmware	Save/Load
	$\sum_{i=1}^{n}$	
Firmware Image		
l l	Browsing	Update

The device will reboot after firmware update and be located again in Commander device list.

Note: all configuration will restore to default except for the device IP address after the firmware update.

Save / Reload

After configuration is finished, be sure to Apply and Save the changes.

re Apply and Save	Apply all configurations and Save to Flash. The changes are valid after reboot.
Load Default	Load default configuration except Network Settings.
Reboot Device	Reboot the device.
Retri	eve saved configuration file to apply in the device.

Export Save the current configuration into a file and save the file in current host.

Port Configuration

Serial Port Configurations include configuration for the serial parameters, serial communication modes, data packing options, and event notifications.

Go to the port of the device in Configuration tree.

	Serial Setting:	Service Mode No	otificati	on				
🖻 🔏 Configuration	port1							
E-@ 192.168.10.5	Port Alias	Deut0						
	1 OKT-IIIGO	Folio						
Setup Wizard	Baudrate	38400	-	Stop Bits	1	-	Performance Throughput	-
🛶 Virtual COM Wizard	Parity	No	-	Flow Control	No Flow	_	,	
🛶 Group Setup Wizard	Dute Dite	INO	4	1-1-6		<u> </u>		
Group Firmware Wiza	Data Bits	8	-	Interrace	RS232	~		

Choose "Apply Only" or "Apply and Save" to validate the changes.

Serial Settings

The available serial settings for JetPort is as follows:

Port Alias: Remark the port to hint the connected device.
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)

* 1.5 is only active when data bit is 5.

Flow Control: No, XON/XOFF, RTS/CTS, DTR/DSR Interface: RS232
Performance: Throughput, Latency

Throughput mode guarantees highest transmission speed Latency mode guarantees shortest response time

Advanced Data Packing Options

For advanced data packing options, you can specify delimiters for Serial to Ethernet and / or Ethernet to Serial communications.

You can define max. 4 delimiters (00~FF, HEX) for each way. The data will be hold until the delimiters are received or the optional "Flush Ethernet to Serial data buffer" times out. Zero means disable(factory default).

- Delimiter Cettings
Serial to Ethernet Ethernet to Serial
Delimiter 1 Delimiter 2 (HEX) (HEX) Enabled Enabled
Flush Ethernet to Serial Data Buffer After
0 ms
The received data will be queueing in the buffer until all the delimiters are matched. When the buffer is full (4K Bytes) or after "flush E2S data buffer" timeout, the data will also be sent.

Force TX interval time is to specify the timeout when no data has been transmitted. When the timeout is reached or TX buffer is full (4K Bytes), the queued data will be sent. Zero means disable(factory default).

Force TX interval time							
0	ms	data 1	interval time	data 2	interval time	data 3	

Choose "Apply Only" or "Apply and Save" to validate the changes.

Service Mode- Virtual COM

Virtual COM service mode enables the serial port in JetPort as PC's locally-attached COM port for Windows or tty port for Linux. 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.



For redundant system considerations, JetPort also supports up to 5 Virtual COM links. Apply same serial setting to the backup host, all the links will transfer data simultaneously.



To start the Virtual COM, select Virtual COM Mode in Service Mode of Port Configuration.



Select "Map Virtual COM" to map the port to PC's COM port.

🍼 Map Virtual COM

A Window will appear to confirm to change to Virtual COM mode. Choose Apply Only or Apply and Save.



Select the available port number to map to.

Serial Settings Service Mode Notification	
port1 Service Mode Virtual COM Mode 🗨	Select a Virtual COM Name
Virtual COM Mode	
Virtual COM Settings	
Map Virtual COM	COM8 COM9
Multilink	COM10 COM11 COM12
Max Connections	COM12 COM13 COM14
Destination Host VCOM Name	COM15 COM16 COM17
Waiting for VCOM connect	
2 Waiting for VCOM connect	Cancel OK

When the configuration is finished and saved, the COM port number will be shown after port, and you can monitor the port in Monitor menu.

⊡~@ JetPort	Monitor Select Monitor Items						
in 192.168.10.2	Number	VCOM	Settings	Device Name	IP Address	MAC	- Status
port1(COM1)	1	COM1	38400, NO, 8, 1	JETPORT5201-DEFAULT	192.168.10.2	00:12:77:12:23:45	connected
🖻 🥌 Monitor							
UM1							
IP Collection							
System Log							

Multiple Virtual COM Connections

Max. one connection is default. To create multiple Virtual COM connection, select max. connection number that the JetPort device is allowed. After increasing the max. connection number, other hosts on the same subnet as JetPort can use the port as Virtual COM port at the same time.

Note that all the hosts for the multiple Virtual COM connections must have the same serial parameters, i.e. baud rate, start bit, data bit, etc.

Serial Settings Service Mode Notification port1 Service Mode Virtual CDM Mode				
Virtual COM Mode				
Virtual COM Settings	Map Virtual COM	Misc. Idle Timeout 0 Alive Check 0	(0-65535) Seconds (0-65535) Seconds	
Multilink				
1				
1 2 V	COM Name			
	COM1	🖴 Goto VCom 🧃	🐓 Unmap VCom	
2		📥 Goto VCom 🛛	💭 Unmap VCom	
3		📥 Gioto VCom 🛛	💓 Unmap VCom	
4		📥 Goto VCom 🛛	🐓 Unmap VCom	
5		📥 Goto VCom 🛛	🐓 Unmap VCom	

Miscellaneous Settings:

Idle Timeout: When serial port stops data transmission for a defined period of time (Idle Timeout), the connection will be closed and the port will be freed and re-try for connection with other hosts. Zero is disable this setting (default). If Multilink is configured, only the first host connection is effective for this setting.

Alive Check: The JetPort device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).



To unmap the COM port, specify the port and select Unmap in the quick bar.

Service Mode- TCP Server

When JetPort is configured as TCP Server, it gives the connected serial device a unique IP:Port address on a TCP/IP network that can be accessed by other network hosts. JetPort 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.

TCP Server mode supports up to 5 simultaneous connections, so that max. 5 network hosts as TCP Clients can connect to the device at the same time.

Note that all the hosts for the multiple TCP Server connections must have the same serial parameters to communicate with JetPort, i.e. baud rate, start bit, data bit, etc.



TCP Server proceeds as follows:

1. Network host requests a TCP connection with JetPort in TCP Server Mode by IP address and port number.

2. Once the connection is established, data can be transmitted in both directions from the host to the JetPort device, and vice versa.

To configure TCP Server, select TCP Server Mode in Service Mode of Port Configuration.

🐟 Apply and Save

"Auto Scan" the TCP Data Port number that is available from current host. The Control Port is Data Port number plus one.

Define the max. connection allowed from 1 to 5.

Apply a	nd Save	the c	hanges.

崎 Refresh

function refreshes the current connections.

Serial Settings Service Mode Notification
port1 Service Mode TCP Server Mode
TCP Server Mode
TCP Server Settings Misc. Data Port 4000 Misc. Control Port 4001 Auto Scan Multilink Misc. 0
Max Connections 1 Image: Second sec
Disconnect
2 Disconnect
3
4 Disconnect
5 Disconnect

Miscellaneous Settings:

Idle Timeout: When serial port stops data transmission for a defined period of time (Idle Timeout), the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default). If Multilink is configured, only the first host connection is effective for this setting.

Alive Check: The JetPort device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).

Service Mode- TCP Client

When JetPort is configured as TCP Client, it will build TCP connection to remote host when data is received. When the connection is built, the data is transmitted bi-directionally. When 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. JetPort supports up to 5 simultaneous TCP Client connections for redundant system considerations.



TCP Client proceeds as follows:

1. The JetPort configured as TCP Client Mode requests a connection to the host.

2. Once the connection is established, data can be transmitted in both directions from the host to the JetPort, and vice versa.

To configure TCP Client, select TCP Client Mode in Service Mode of Port Configuration.

Specify the IP and port number of the host. If the TCP Client should connect to the current host, "Auto Scan" will scan current host IP address and available port number. If the TCP Client should connect to other hosts, specify the IP address of the host and "Auto Scan" will scan the available port number of JetPort.

If the TCP Client should connect to more than one host, specify the IP addresses and port number or use "Auto Scan" to scan the port number of JetPort.

Apply and Save the changes.

🌺 Apply and Save

Serial Settings Service Mode Notification	
port1 Service Mode TCP Client Mode	
TCP Client Mode	
TCP Client Settings Destination Host Froz 100 100 Froz 100 100 Froz 100 100 Froz 100 100 Froz	Misc. Idle Timeout 0 (0-65535) Seconds
192.168.10.100 4024	Alive Check 0 (0-65535) Seconds
	Connect on Startup
Multilink	
Destination Host Port	
Auto Sca	In
Auto Sca	n
Auto Sca	In
4 Auto Sca	in

Miscellaneous Settings:

Idle Timeout: When serial port stops data transmission for a defined period of time (Idle Timeout), the connection will be closed and the port will be freed and re-try for connection with other hosts. Zero is disable this setting (default). If Multilink is configured, only the first host connection is effective for this setting.

Alive Check: device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).

Connect on Startup: The TCP Client will build TCP connection once the connected serial device is startup.

Connect on Any Character: The TCP Client will build TCP connection once the connected serial device starts to send data.

Service Mode- UDP

The UDP Server/Client Mode of operation is designed for applications that require speedy but no-guaranteed data transmission over UDP protocol layer. When JetPort is configured as UDP Server/Client, your serial device can deliver data to multiple destinations at almost the same time since the UDP does not request building connection first before sending data.



To configure UDP, select UDP Mode in Service Mode of Port Configuration.

"Auto Scan" the Listening port number of JetPort.

If there are more than one destination hosts, specify the IP address range by Destination Host IP Begin and End. "Auto Scan" the sending port number of the device.

For example:

Destination Host Begin = 192.168.10.1Destination Host End = 192.168.10.100Send Port = 4040Listening Port = 4032

*JetPort will receive Ethernet data from port 4032 and send to serial port *JetPort will receive Serial data to 192.168.10.1 to 192.168.10.100 via port 4040

Applu and Save

Apply and Save the changes.	ppy and save
Serial Settings Service Mode Notification	
Port1 Service Mode UDP Mode	
UDP Mode	
UDP Settings Listening Port 4032	
Destination Host Begin Destination Host End	Sending Port
192.168.10.1 to 192.168.10.100	4040 🗠 Auto Scan
2 to 1	🕰 Auto Scan
3to [Auto Scan
4 to	🕰 Auto Scan

Notification

Port status can be notified to administrator by means of Email, SNMP trap, or System Log.

The events for notification include:

- DCD changed: When DCD (Data Carrier Detect) signal changes, indicating the modem connection status has changed, the event will be triggered.
- RI changed: When RI (Ring Indicator) signal changes, indicating the incoming of a call, the event will be triggered.
- DSR changed: When DSR (Data Set Ready) signal changes, indicating that the data communication equipment is powered off, the event will be triggered.
- CTS changed: When CTS (Clear To Send) signal changes, indicating that the transmission between computer and DCE can proceed.
- Port connected: 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.
- Port disconnected: In TCP Server/Client Mode, when the device lost 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".

1	General Security Networking Notification Management Update Firmware Save/Load	
	 ✓ Web Management Enable ✓ Telnet Management Enable 	
	SNMP Management Enable	
(SNMP Management Settings	
	Community	
	Location	
	Contact	
	Trap Server1	
	Trap Server2	
	Trap Server3	
	Trap Server4	

General Security Networking Notification Management Update Firmware Save/Load
SNMP Trap Email Notification Syslog Notification
SNMP Settings Email Settings Notified Items Image: Cold Start Image: Temperature Reset (Cold Start) Image: Cold Start
✓ Software Reset (Warm Start) ✓ Password Changed
✓ Login Failed ✓ Access IP Blocked
SMTP Settings SMTP Server Port User Name Password 21 21 7 Authentication Required
Email List Email Address 1 Email Address 5 Email Address 5
Email Address 2 Email Address 6
Email Address 4 Email Address 8
General Security Networking Notification Management Update Firmware Save/Load
SNMP Trap Email Notification
SNMP Settings Email Settings Syslog Settlings
Votified Items ↓ Hardware Reset (Cold Start) ↓ IP Changed
✓ Software Reset (Warm Start) ✓ Password Changed
✓ Login Failed ✓ Access IP Blocked
System Log Settings Server IP Port
0 Using Current Host's Log Server

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



Setup Wizard

JetPort Commander offers 5 Setup Wizards to help you manage JetPort devices as a group and streamline the management tasks.

JetPort Configuration Joint 192.168.10.5 Joint 192.168.10.6 Joint 192.	Ś	Welcome to Wizard Center Please select a wizard you need
Serial Tunnel Wizard		Virtual COM Wizard
IP Collection		Group Setup Wizard
🥳 System Log		Group Firmware Wizard
		Serial Tunnel Wizard
		Group IP Wizard

Virtual COM Wizard

JetPort Commander offers one of the easiest way to add serial COM ports over the network by the Virtual COM Wizard. JetPort COM port driver is installed when you install JetPort Commander.

Select the Virtual COM Wizard from Setup Wizard. There are only 3 steps to follow up.

JetPort	Start	
Comparation 192 168.10.5 192 168.10.5 192 168.10.6 Monitor Composition Vizard Croup Setup Vizard Serial Tunnel Vizard Serial Tunnel Vizard	Welcome to Virtual COM Wizard	
Group IP Wizard IP Collection	This wizard will bring you to setup the device serial port(s) and map it to Virtual COM step by step.	
	STEP 1. Select serail port(s) from available devices.	
	STEP 2. Setup these serial ports(s), baudrate, data bitsetc.	
	STEP 3. Done.	

Select the available ports of JetPort devices on the network.

Select Serial Port(s)	
Available Serial Ports ✓ 192.168.10.5.port1.JETPORT5201-DEFAULT ✓ 192.168.10.6.port1.JETPORT5201-DEFAULT	Selected Serial Ports
	 ◆

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 fast.

Serial Port Settings							
Baudrate Parity	460800 •	Stop Bits Flow Control	1 No Flow	•	Performance Throughtput		
Data Bits	8	Interface	RS232	•			

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

Virtual COM Settings	
Virtu	al COM Mapping
CVirtual COM Bange	
Vitadi com Hango	rtual COM Mapping Table
	CM1 <=> 192.168.10.5,port1,JETPORT5201-DEFAULT

Serial Tunnel Wizard

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

- 🕼 JetPort	Start		
Configuration 192168.10.5 192168.10.6 9 port1 0 192168.10.6 9 port1 Monitor Monitor Virtual CDM Wizard Group Setup Wizard Group Setup Wizard Group Firmware Wizard	Welcome to Serial Tunnel Wizard		
Group IP Wizard Group IP Wizard IP Collection System Lon	Serial tunnel wizard helps you to couple two serial devices to directly communicate by Ethernet without the PC		
G official cog	STEP 1. Select two devices that should be tunneled together		
	STEP 2. Select serial parameters such as baud rate, data bits.		
	STEP 3. Finish		

Select the devices that should be paired and move the devices into IP1 and IP2.

Select Tunnel Pairs	
Available Devices ✓ 192.168.10.6.port1.JETPORT52014 ✓ 192.168.10.5.port1.JETPORT52014	Image: Tunnel Device Pair A IP1 IP2 Port1 Port2

After configuring the serial setting of the ports, the serial tunnel will be built by assigning one port as the TCP Server mode and the other as the TCP Client mode.

Done	
<u>S</u>	Tunnel Device Pair A IP1 192.168.10.6 IP2 192.168.10.5 Port1 port1 Port2 port1
Thank you for using Serial Tunnel Wizard,	
The right hand side device pair(s) are setup to "tunnel mode".	

Group IP Wizard

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

Select Group IP Wizard after opening JetPort Commander, or use Broadcast and find more than one devices on the network and click Group IP Wizard hint at the bottom.



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

01.00 1.001

	Select Device(s)	
	Available Specified Model Device(s)	Selected Device(s)
Select a Network Group	192.168.10.2_00:80:33:67:43:00, Click "checked" 192.168.10.2_0A:BB:CC:99:66:00, Click "checked"	
Network Group		
Local Network (Broadcast Search)		⇒
Search and set the nearby deivces (In the same subnet).		+
C Global Network (Search by IP)		
Search and set the device by an IP range.		
	Clear All Select All	Clear All Select All

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

Network Settings	
🔽 Using Static IP 🔲 Using DHCP	
Assign Static IP Range	
IP To 192.168.10.10	Done
Netmask 255.255.255.0	Thank you for using Network Setup Wizard, click "Next" to use this wizard again .
DNS1	
DNS2	192.168.10.2_00:B0:33:67:43:00, Changed to 192.168.10.5
🕰 Auto Scan	== Click "Next" to add these device ==

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 helps you to copy the configuration of one device to other devices. You can select the items to be copied or not. Go to "Setup Wizard", "Group Setup Wizard", and choose "Next" to continue.

🚳 JetPort Commander	
File Device Configuration COM C	onfiguration Help
Broadcast	Vicas Device Device <thdevice< th=""> Device <thdevice< th=""> <thdevice< th=""> <thdevice< th=""></thdevice<></thdevice<></thdevice<></thdevice<>
Completent Section 192168:10.5 Section 192168:10.5 Section Visual Section Visual Section Visual Group Section Visual Section Section Visual Section Visual Section Visual Section Visual Section Visual Section Visual	Welcome to Group Setup Wizard
- Stroup IP Woard - Stocketion - System Log System Log	The Group Setup Wizard helps you to copy one device settings to the other same models. STEP 1. Select the device model. STEP 2. Select the source device and the destination devices. STEP 3. Select the device and port settings to copy STEP 4. Start copying
<	A Back

Select device model as "JetPort 5201".

elect Device Model		
Select a Device Mo	odel	
JetPort5201		•
If this listbox is emp Please search and	ity, that means there is no de add the devices again.	vice located.

Select the source device for the configuration and destination devices.

Select Device(s)		
Available Specified Model Device(s)		
192.168.10.6, JetPort5201, JETPORT5201-DEFAUL	-	Selected One Source Device
192.168.10.5,JetPort5201,JETPORT5201-DEFAUL		
		,
		Selected Destination Device(s)
	-	

Specify the configuration items from the source device to the destination devices.

Select Group Settings
Select group settings Device Settings Device Name/Location SNTP Service Auto IP Report Access IP Table Password Stable Disclose National Section
Email/SNMP/Syslog Notifications Web/Telnet/SNMP Managements
Port Settings
Serail Settings Delimiter Settings ForceTX Settings Operation Settings Notifications Settings

Click next to confirm and finish the wizard.

Groups Updating		
Group Updating Time will be	14 Seconds (worst case)	<u> </u>
Press Next to start group setup.		$\sqrt{\cdot}$
Done		
Thank you for click "Next" t	using Group Setup Wizar o use this wizard again	d,
192.168.10.6, Set OK		

Group Firmware Wizard

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

Start	
Q	Welcome to Group Firmware Wizard
This wizard help	s you to update firmware for a group of devices.
STEP 1. Select th	e device model.
STEP 2. Select th	he target devices.
STEP 3. Select th	e new firmware.
STEP 4. Go.	

Select the device model as JetPort 5201, and select available devices on the network for the upgrade.

	Select Device(s)	
Select Device Model	Available Specified Model Device(s) 192.168.10.5.J.etPort5201.JETPORT5201-DEFAUL 192.168.10.6.J.etPort5201.JETPORT5201-DEFAUL	Selected Device(s)
Select a Device Model JetPort5201		
If this listbox is empty, that means there is no device located. Please search and add the devices again.		 ● ●

Specify the firmware image and select next. Confirm the firmware upgrade and continue operation. JetPort Commander will upgrade firmware of the devices and reboot again to finish.

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

IP Collection

For the dynamic DHCP IP settings, it is often a task to find the changing IP addresses.

JetPort Commander supports auto IP report function to report the current IP address of the JetPort 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.

1odel JetPort5201	Serial Number 123456789-	12-456	Version 0.96
P Address 192.168.10.5	MAC Address 00:80:33:67:43:00		
evice Name/Location			_
JETPORTS201-DEFAUL	T		🚰 Locate On
Using SNTP Time Se SNTP Server IP pool.ntp.org	T ver Port IP 123 12	Auto IP Report Address 32.168.10.100	Port 60001

Be sure to define the Report Interval time. Zero is disable.

Go to the IP Collection function of the main menu and find the devices auto IP report list.

💮 JetPort Commander				
File Device Configuration COM Co	onfiguration Help			
Broadcast		vcom Wizard ard	Firnware Wizard	
- 🍈 JetPort	+ IP Address	Device Name	Model	Last Reported Time
🖻 🔏 Configuration	192.168.10.5	JETPORT5201-DEFAULT	JetPort5201	Mon Feb 06 17:50:44 2006
	192.168.10.6	JETPORT5201-DEFAULT	JetPort5201	Mon Feb 06 17:52:59 2006
H ■ Monitor				
🖃 🍇 Setup Wizard				
🛶 Virtual COM Wizard				
🕂 🕺 Group Setup Wizard				
Group Firmware Wizard				
Serial Tunnel Wizard				
System Log				

Monitor

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



In addition to Windows utility, JetPort can also be managed by Web and Telnet Console. This chapter describes:

- Web Console
 - Server Configuration
 - Port Configuration
 - > Management
 - Save / Restart

Telnet Console

- > Overview
- > Configuration

Web Console

When the JetPort has been configured with proper IP address and the web management is enabled, you can use web browser to make further configurations.

Type JetPort's IP address in the Address input box, for example 192.168.10.5.



korenix	JET/20RT
Password Prote	ected
Password:	

The overview page lists the basic information of this JetPort device.

		<u>Go to Korenix</u> · <u>Help</u>
korer	nix	JET/PORT
	Welcome to JetF	ort Web Commander
Server Configuration	Overview	
Overview Basic Setting Network Setting Change Password Port Configuration	Model Name IP address MAC Address Firmware Version	JetPort5201 192.168.10.5 00:12:77:12:23:45 0.97b
Serial Parameters Service Mode Management Access IP Setting E-mail and SNMP Trap Event Notification Save / Restart		

Server Configuration

Basic Setting configures Server name, Time Server, and Telnet console enable/disable.

Basic Setting

Device name/Location	5201	
Time		
Time zone	(GMT+08:00)Taipei	~
Local time	Thu Jan 1 00:28:59 1970	
Time server	192.168.0.51	
Console		
Telnet console	⊙ Enable ○ Disable	
Submit		

Network Setting configures the IP address, netmask, gateway, and DNS server for the JetPort. Auto IP report is for dynamic IP address reporting in defined intervals.

Network Setting

IP configuration	Static	۷
IP address	192.168.10.5	
Netmask	255.255.255.0	
Gateway	192.168.10.5	
DNS server 1	168.95.1.1	
DNS server 2		
IP Address report		
Auto report to IP		
Auto report to TCP port	0	
Auto report period	0 second	ds

You can also define Administration password to protect the JetPort from unauthorized modification. Avoid using space in password.

Change Password

Old Password:	
New Password:	
Confirm New Password:	
Submit	

Port Configuration- Serial Parameter

Port Configuration covers Serial Parameter settings, such as baud rate, data bits, stop bits, parity, and flow control.

Port Alias: Remark the port to hint the connected device. 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: No, XON/XOFF, RTS/CTS, DTR/DSR Interface: RS232 Performance: Throughput, Latency Throughput mode guarantees highest transmission speed Latency mode guarantees shortest response time

For advanced data packing options, you can specify delimiters for Serial to Ethernet and / or Ethernet to Serial communications.

You can define max. 4 delimiters (00~FF, HEX) for each way. The data will be hold until the delimiters are received or the optional "Flush Ethernet to Serial data buffer" times out. Zero means disable(factory default).

oena oetting	
Port alias Interface	Port0
interface	Serial Parameters
Baud rate	460800 💌
Data bits	8 💌
Stop bits	1
Parity	NONE 🗸
Flow control	RTSCTS 💌
Force TX Timeout	0 seconds
Performance	throughput ○ latency
	Delimiter Setting
Mode	Serial to Ethernet
Delimiter Timeout	0 ms
Delimiter(Hex 0~ff)	1: 2: 3: 4:
Mode	Ethernet to Serial
Delimiter Timeout	0 ms
Delimiter(Hex 0~ff)	1: 2: 3: 4:

Force TX interval time is to specify the timeout when no data has been transmitted. When the timeout is reached or TX buffer is full (4K Bytes), the queued data will be sent. Zero means disable(factory default).

Service Mode- Virtual COM

Serial Setting

In Virtual COM mode, you need to define the available port number, Idle timeout, Alive check, and Max. connections allowed from 1 to 5.

Service Mode

Operating Mode: Virtual C	OM Mode 💙
Virtual COM Port	4032
Idle Timeout	0 seconds
Alive Check	0 seconds
Multilink Count	4 🛩

Idle Timeout: When serial port stops data transmission for a defined period of time (Idle Timeout), the connection will be closed and the port will be freed and re-try for connection with other hosts. Zero is disable this setting (default). If Multilink is configured, only the first host connection is effective for this setting.

Alive Check: The JetPort device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).

Service Mode- TCP Server

In TCP Server mode, you need to define the available port number, Idle timeout, Alive check, and Max. connections allowed from 1 to 5.

Service Mode

Operating Mode: TCP Set	wer Mode 🔽
TCP Server Port	
Idle Timeout	seconds
Alive Check	seconds
Multilink Count	0 🕶

Idle Timeout: When serial port stops data transmission for a defined period of time (Idle Timeout), the connection will be closed and the port will be freed and re-try for connection with other hosts. Zero is disable this setting (default). If Multilink is configured, only the first host connection is effective for this setting.

Alive Check: The JetPort device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).

Service Mode- TCP Client

In TCP Client mode, you need to define the destination host IP and port number, Idle timeout, Alive check. To deploy multilink, specify up to 4 more hosts IP and Port number.

Service Mode	
Operating Mode: TCP Clie	nt Mode 🔽
Destination Host	
Idle Timeout	seconds
Alive Check	seconds
Connect on	Startup ○ Any Character
	max. connection (1~5)
Destination Host	Port
1.	
2.	
3.	
4	

Idle Timeout: When serial port stops data transmission for a defined period of time (Idle Timeout), the connection will be closed and the port will be freed and re-try for connection with other hosts. Zero is disable this setting (default). If Multilink is configured, only the first host connection is effective for this setting.

Alive Check: The JetPort device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).

Connect on Startup: The TCP Client will build TCP connection once the connected serial device is startup.

Connect on Any Character: The TCP Client will build TCP connection once the connected serial device starts to send data.

Service Mode- UDP

In UDP mode, you need to define the destination host IP and Local listen port number.

To create more destination hosts, specify the IP range of destination IP and send port number.

Service Mode

Operating Mode: UDP Mode					
Destination Host Listen Port]			
	Multilink				
Host start IP	Host end IP	Send Port			
1					
2.					
3					
4					

Access IP Table

The Access IP Table specifies the IP address and subnet that can access to the device. The access is based on IP and netmask combination.

If the access is open to all hosts, do NOT enable this function.

Access IP Setting



Event Notification

Specify the events that should be notified to the administrator. The events can be alarmed by means of email, SNMP trap, or system log.

Device Notification:

- Hardware Reset (Cold Start): Rebooting the JetPort will trigger the event
- Software Reset (Warm Start): Restarting the computer will trigger the event
- Login Failed: Using wrong password in console will trigger the event
- > IP Changed: Changing network setting will trigger the event
- > Password Changed: Changing the password will trigger the event
- Access IP Blocked: Report blocked IP addresses

Port Notification:

- DCD changed: When DCD (Data Carrier Detect) signal changes, indicating the modem connection status has changed, the event will be triggered.
- RI changed: When RI (Ring Indicator) signal changes, indicating the incoming of a call, the event will be triggered.
- DSR changed: When DSR (Data Set Ready) signal changes, indicating that the data communication equipment is powered off, the event will be triggered.
- CTS changed: When CTS (Clear To Send) signal changes, indicating that the transmission between computer and DCE can proceed.
- Port connected: 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.
- Port disconnected: In TCP Server/Client Mode, when the device lost the TCP link, this event will be trigger. In Virtual COM Mode, When Virtual COM is not available, this event will be trigger.

Email and SNMP Trap Notification

Email Server configuration includes the mail server's IP address or domain. If the authentication is required, specify the username and password. There are 4 email addresses you can specify to receive the notification.

Mail server	
Mail server	::
My server requires a	authentication
Username	
Password	
E-mail address 1	
E-mail address 2	
E-mail address 3	
E-mail address 4	

SNMP Trap configuration includes up to 4 Trap Servers. You need to at least fill in one Trap Server's IP or domain. The Community is also required information. Do not use the ";" in this column. Location and Contact is optional information.

SNMP trap server

SNMP Server 1	
SNMP Server 2	
SNMP Server 3	
SNMP Server 4	
Community	
Location	
Contact	

Save / Restart

Load Factory Default: Load default configuration except Network Settings. Import Configuration: Retrieve saved configuration file to apply in the device. Export Configuration: Save the current configuration into a file and save the file in current host. Upgrade Firmware: Upgrade to new firmware

Telnet Console

Telnet the IP of JetPort, you will enter the Telnet console menu.



Configuration

Configure the device and port by pressing function number or the hinted initial.

Press "q" to exit the function. Always press "a" to apply and save change after making a configuration.

A SNMP MIB II and RS232 Like Support

Jetport 5201 has build-in SNMP agent that supports SNMP trap, RFC 1317 RS232 MIB and RFC1213 MIB-II. The following tables list SNMP variables implemented in Jetport 5201.

RFC1213 MIB-II supported SNMP variables

System MIB				
sysDescr	sysObjectID	sysUpTime	sysContact	sysName
sysLocation	sysORLastChange	sysORID	sysORDescr	sysORUpTime

Interface MIB				
ifNumber	ifIndex	ifDescr	ifType	ifMtu
ifSpeed	ifPhysAddress	ifAdminStatus	ifOperStatus	ifInOctets
ifInUcastPkts	ifInDiscards	ifInErrors	ifOutOctets	ifOutUcastPkts
ifOutDiscards	ifOutErrors	ifOutQLen	ifSpecific	

Address	MIB			
atlfIndex		atPhysAddress	atNetAddress	

IP MIB				
ipForwarding	ipDefaultTTL	ipInReceives	ipInHdrErrors	ipInAddrErrors
ipForwDatagrams	ipInUnknownProtos	ipInDiscards	ipInDelivers	ipOutRequests
ipOutDiscards	ipOutNoRoutes	ipReasmTimeout.	ipReasmReqds	ipReasmOKs
ipReasmFails	ipFragOKs	ipFragFails	ipFragCreates	ipAdEntAddr
ipAdEntIfIndex	ipAdEntNetMask	ipAdEntBcastAddr	ipRouteDest	ipRouteIfIndex

ipRouteMetric1	ipRouteNextHop	ipRouteType	ipRouteProto	ipRouteMask
ipRouteInfo	ipNetToMedialfIndex	ipNetToMediaPhysAddress	ipNetToMediaNetAddress	ipNetToMediaType
ipRoutingDiscards				

ICMP MIB				
icmpInMsgs	icmpInErrors	icmpInDestUnreachs	icmpInTimeExcds	icmpInParmProbs
icmpInSrcQuenchs	icmpInRedirects	icmpInEchos	icmpInEchoReps	icmpInTimestamps
icmpInTimestampReps	icmpInAddrMasks	icmpInAddrMaskReps	icmpOutMsgs	icmpOutErrors
icmpOutDestUnreachs	icmpOutTimeExcds	icmpOutParmProbs	icmpOutSrcQuenchs	icmpOutRedirects
icmpOutEchos	icmpOutEchoReps	icmpOutTimestamps	icmpOutTimestampReps	icmpOutAddrMasks
icmpOutAddrMaskReps				

TCP MIB				
tcpRtoAlgorithm	tcpRtoMin	tcpRtoMax	tcpMaxConn	tcpActiveOpens
tcpPassiveOpens	tcpAttemptFails	tcpEstabResets	tcpCurrEstab	tcpInSegs
tcpOutSegs	tcpRetransSegs	tcpConnState	tcpConnLocalAddress	tcpConnLocalPort
tcpConnRemAddress	tcpConnRemPort	tcpInErrs	tcpOutRsts	

UDP MIB				
udpInDatagrams	udpNoPorts	udpInErrors	udpOutDatagrams	udpLocalAddress
udpLocalPort				

SNMP MIB				
snmpInPkts	snmpOutPkts	snmpInBadVersions	snmpInBadCommunityNames	snmpInBadCommunityUses
snmpInASNParseErrs	snmpInTooBigs	snmpInNoSuchNames	snmpInBadValues	snmpInReadOnlys
snmpInGenErrs	snmpInTotalReqVars	snmpInTotalSetVars	snmpInGetRequests	snmpInGetNexts
snmpInSetRequests	snmpInGetResponses	snmpInTraps	snmpOutTooBigs	snmpOutNoSuchNames
snmpOutBadValues	snmpOutGenErrs	snmpOutGetRequests	snmpOutGetNexts	snmpOutSetRequests
snmpOutGetResponses	snmpOutTraps	snmpEnableAuthenTraps	snmpSilentDrops	snmpProxyDrops

RFC1317 RS232 supported SNMP variables

RS232 MIB				
rs232Number	rs232PortIndex	rs232PortType	rs232PortInSigNumber	rs232PortOutSigNumber

rs232PortInSpeed	rs232PortOutSpeed	rs232PortInFlowType	rs232PortOutFlowType	
rs232AsyncPortIndex	rs232AsyncPortBits	rs232AsyncPortStopBits	rs232AsyncPortParity	rs232AsyncPortAutobaud
rs232AsyncPortParityErrs	rs232AsyncPortFramingErrs	rs232AsyncPortOverrunErrs		
rs232InSigPortIndex	rs232InSigName	rs232InSigState	rs232InSigChanges	
rs232OutSigPortIndex	rs232OutSigName	rs232OutSigState	rs232OutSigChanges	

Pin No.	Name	Notes/Description
1	DCD	Data Carrier Detect
2	RD	Receive Data (RxD, Rx)
3	TD	Transmit Data (TxD, Tx)
4	DTR	Data Terminal Ready
5	SGND	Ground
6	DSR	Data Set Ready
7	RTS	Request To Send
8	CTS	Clear To Send
9	RI	Ring Indicator

RS232 DB9 Male

