

Korenix JetPort 5201 Serial Device Server

User's Manual

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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 Real/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 Real/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: Real/Virtual COM, Serial tunnel, TCP server, TCP client, UDP
- Max. 5 Real/Virtual COM, TCP server, TCP client data links
- Configuration by Windows, Web, telnet
- Event warning by Email, SNMP trap
- Real/Virtual COM driver for Windows NT/2000/XP/2003/7

Product Specification

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	<p>JetPort Commander for Windows NT/2000/XP</p> <ul style="list-style-type: none"> ▶ 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	Real/Virtual COM / TCP Server / TCP Client / UDP / Serial Tunnel
	<ul style="list-style-type: none"> ▶ TCP Alive Check Timeout ▶ Inactivity Timeout ▶ Delimiter for Data Packing ▶ Force TX Timeout for Data Packing
Multiple link	5 Hosts simultaneous connection: Real/Virtual COM / TCP server / TCP Client
Real/Virtual COM	Windows NT/2000/XP/2003/7
Configuration	Web console, Telnet console, JetPort Commander for Windows NT/2000/XP/7
Power Requirements	
Power Input	24VDC (9-30VDC)
Power Line protection	<ul style="list-style-type: none"> ▶ 1 KV Burst (EFT), EN61000-4-4 ▶ 0.5 KV Surge, EN61000-4-5
Mechanical	
Dimensions	54.4mmx79.5mmx27mm
Regulatory Approvals	FCC Class A, CE Class A 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

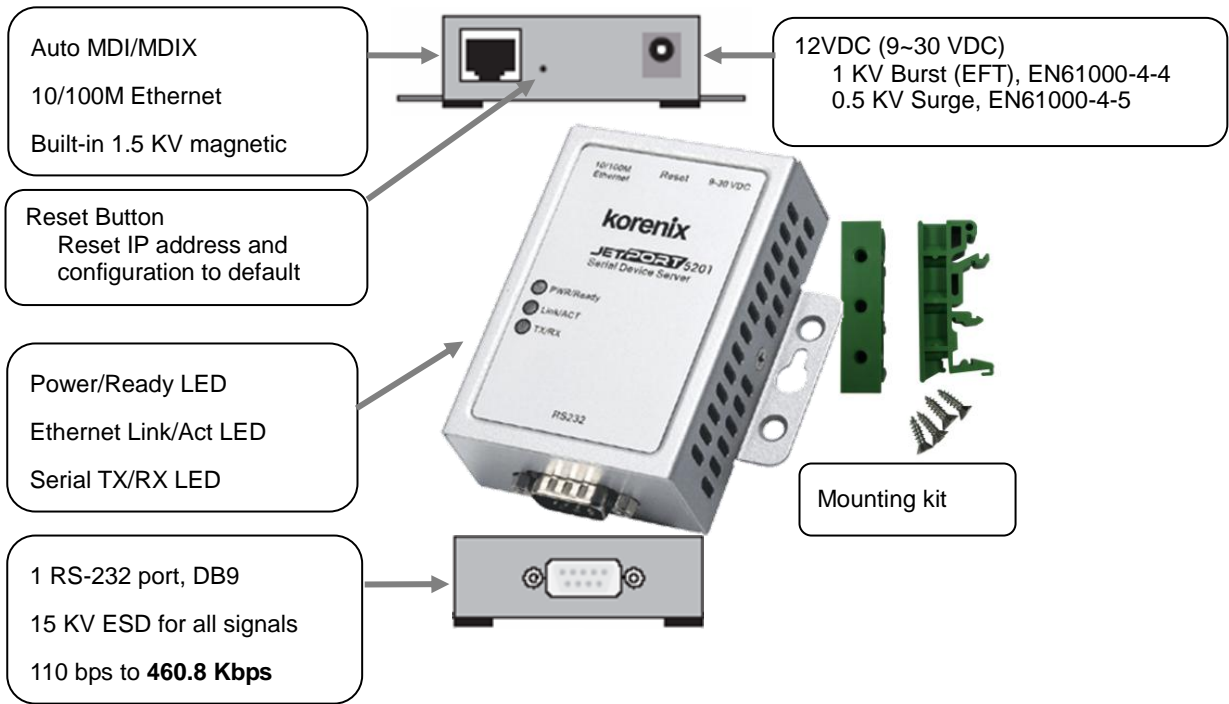
JetPort serial device server can be configured by Windows utility, web browser, or Telnet console. Advanced management features include SNMP support and Email alert. JetPort Commander is a powerful Windows utility that supports device discovery, group setup, group firmware update, and monitoring functions.

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	Green	Blinking: 10 /100Mbps 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 be blinking orange. If the 100M Ethernet is working, the Link/Act LED will be blinking green.

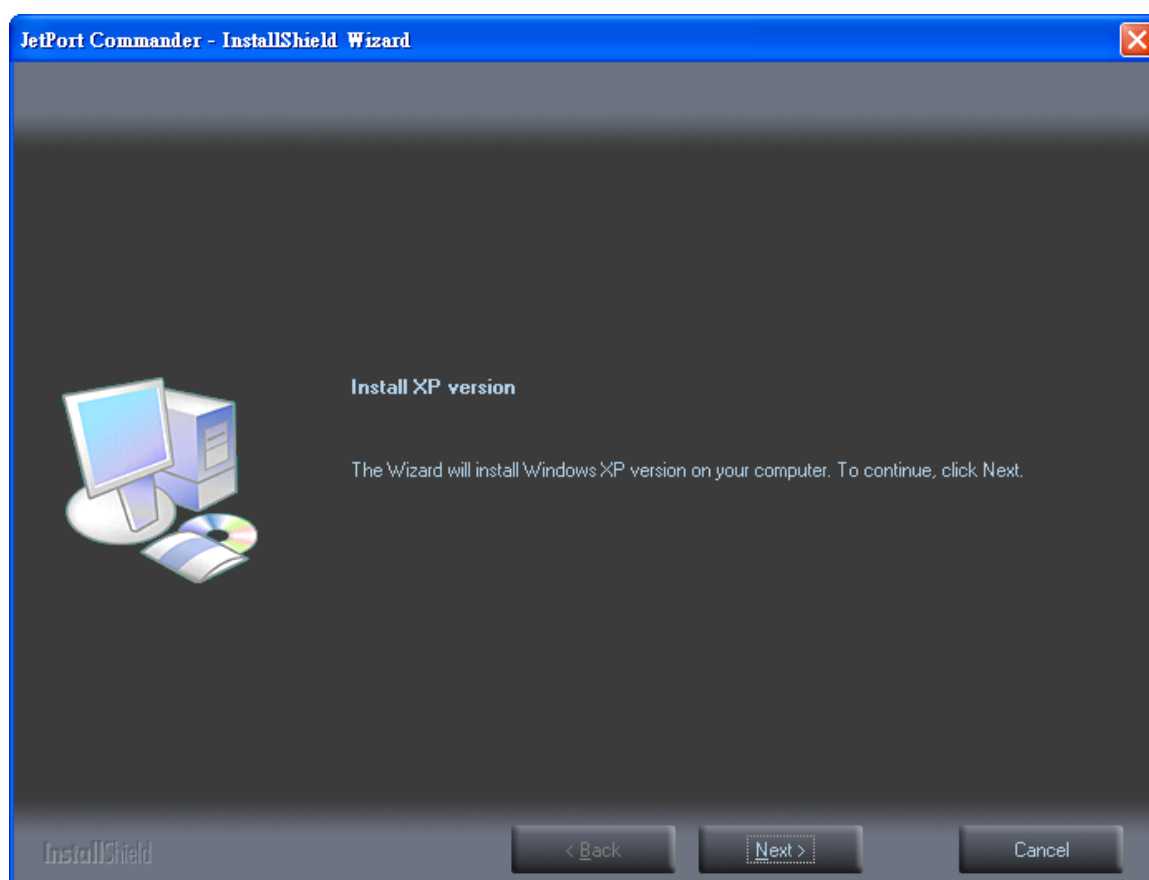
Connecting to the Serial Device

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. Select "JetPort Commander", and run JetPort Commander.exe to install Windows utility, JetPort Commander.

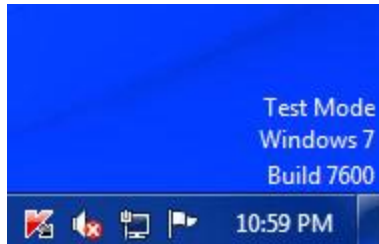


It automatically detects OS of your PC.

It will also turn on the Windows7's test mode.

Then you should reboot your PC for the settings to take effect.

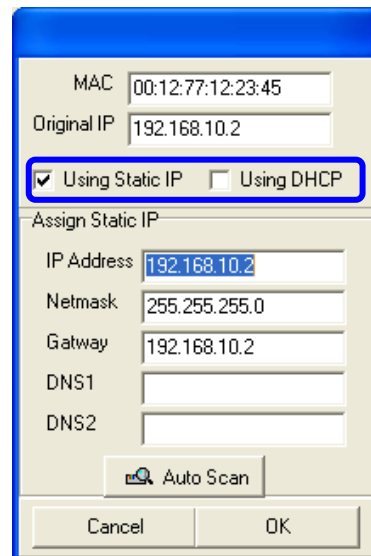
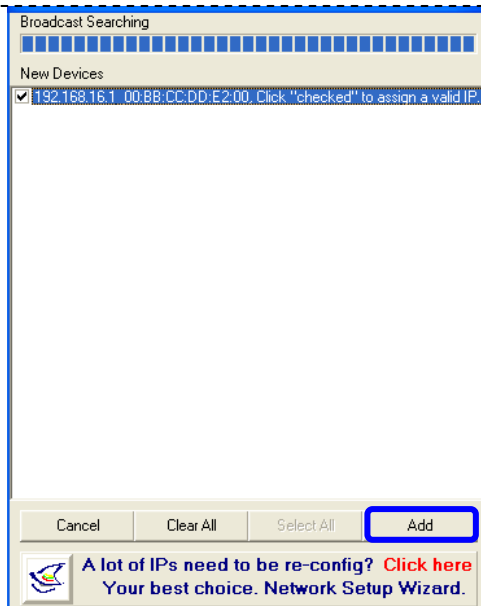
After you reboot your PC, you should see a test mode watermark on the screen.



2. **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".



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.



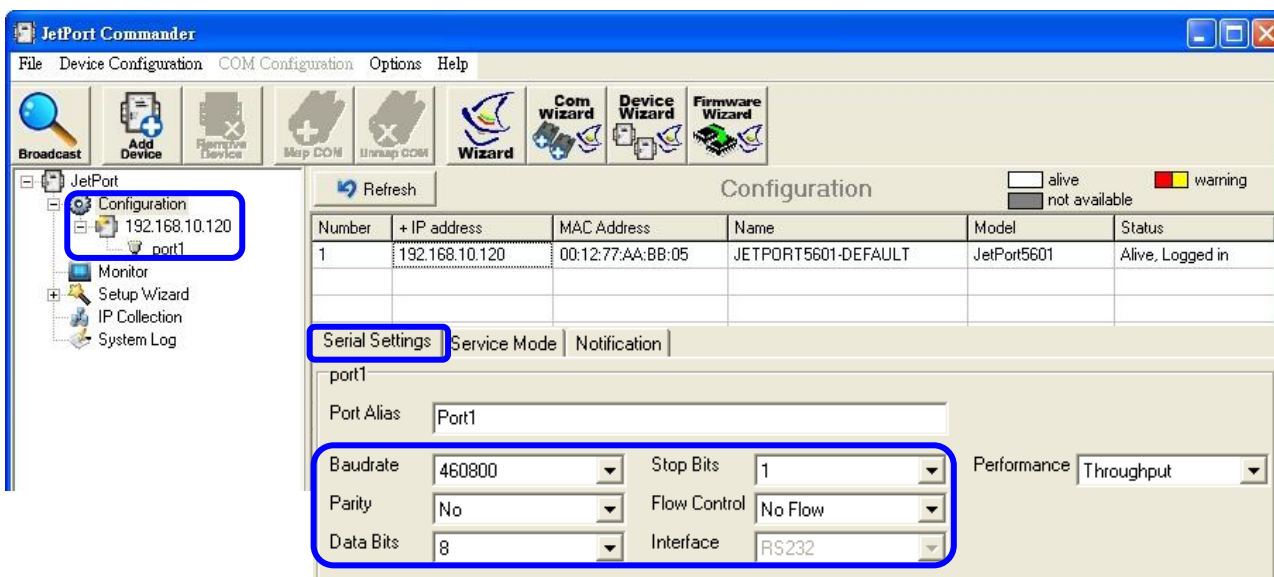
3. **Configuring the JetPort unit:**

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

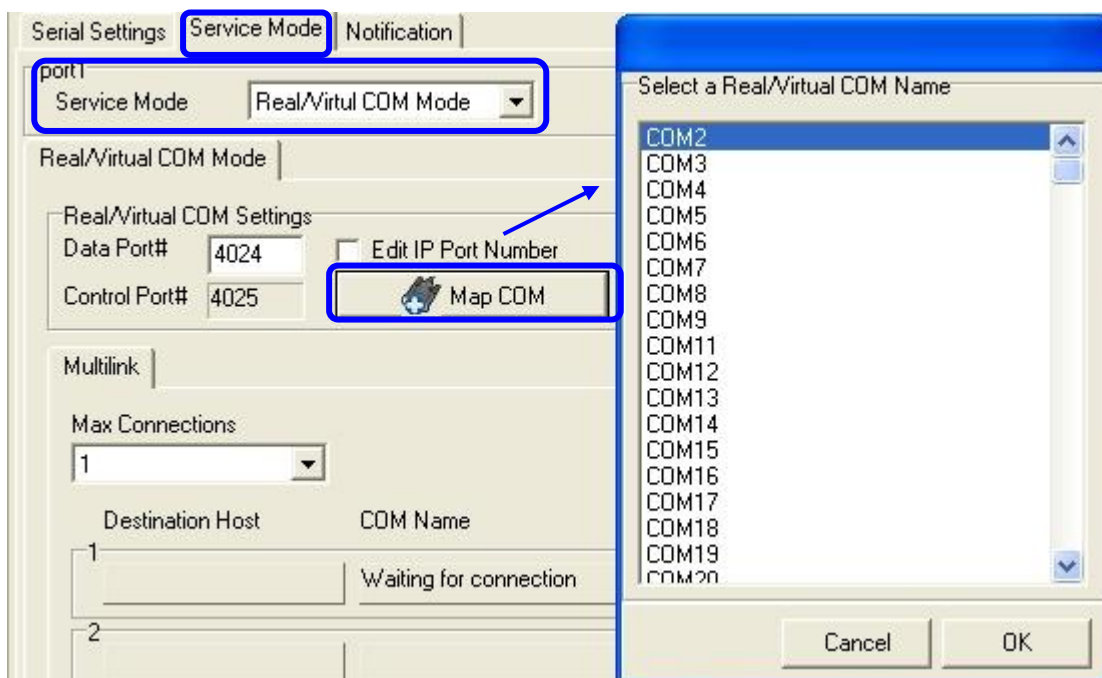
3.2 Select "Static IP" if you want to specify the network parameters, or select "DHCP", or "BootP" if you want dynamic configuration for the JetPort unit.

4. Configuring the serial port as COM port:

4.1 Go to “Configuration”, and choose the “device” and the “port”. Select “Serial Settings” to configure the serial parameters



4.2 Select “Service mode”, “Real/Virtual COM Mode” and press “Map COM” to map the port to the COM port.



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

Note: This document shows you how to quick setup the software. The full functions and configurations' description, please refer to the JetPort Commander Manual which you can find in the CD or download from Korenix web site.

4

Web and Telnet Console

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.

If the JetPort is password protected, use the pre-assigned password to login first.



Password Protected

Password:

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



[Go to Korenix](#) · [Help](#)

Welcome to JetPort Web Commander

Overview

Model Name	JetPort5201
IP address	192.168.10.5
MAC Address	00:12:77:12:23:45
Firmware Version	0.97b

Server Configuration

- [Overview](#)
- [Basic Setting](#)
- [Network Setting](#)
- [Change Password](#)

Port Configuration

- [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	<input type="text" value="5201"/>
Time	
Time zone	<input type="text" value="(GMT+08:00)Taipei"/>
Local time	Thu Jan 1 00:28:59 1970
Time server	<input type="text" value="192.168.0.51"/>
Console	
Telnet console	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
<input type="button" value="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	<input type="text" value="Static"/>
IP address	<input type="text" value="192.168.10.5"/>
Netmask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.10.5"/>
DNS server 1	<input type="text" value="168.95.1.1"/>
DNS server 2	<input type="text"/>

IP Address report

Auto report to IP	<input type="text"/>
Auto report to TCP port	<input type="text" value="0"/>
Auto report period	<input type="text" value="0"/> seconds
<input type="button" value="Submit"/>	

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

Change Password

Old Password:	<input type="text"/>
New Password:	<input type="text"/>
Confirm New Password:	<input type="text"/>
<input type="button" value="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).

Serial Setting

Port alias
 Interface RS232

Serial Parameters

Baud rate
 Data bits
 Stop bits
 Parity
 Flow control
 Force TX Timeout seconds
 Performance throughput latency

Delimiter Setting

Mode Serial to Ethernet
 Delimiter Timeout ms
 Delimiter(Hex 0~ff) 1: 2: 3: 4:

Mode Ethernet to Serial
 Delimiter Timeout 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- Real/Virtual COM

In Real/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 COM Port

Idle Timeout seconds

Alive Check seconds

Multilink Count

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 Server Port

Idle Timeout seconds

Alive Check seconds

Multilink Count

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: ▼

Destination Host :

Idle Timeout seconds

Alive Check seconds

Connect on Startup Any Character

max. connection (1~5)

Destination Host	Port
1. <input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>

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: ▼

Destination Host

Listen Port

Host start IP	Multilink Host end IP	Send Port
1. <input type="text"/>	<input type="text"/>	<input type="text"/>
2. <input type="text"/>	<input type="text"/>	<input type="text"/>
3. <input type="text"/>	<input type="text"/>	<input type="text"/>
4. <input type="text"/>	<input type="text"/>	<input type="text"/>

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

No.	IP Address	Netmask
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	<input type="text"/>
10	<input type="text"/>	<input type="text"/>
11	<input type="text"/>	<input type="text"/>
12	<input type="text"/>	<input type="text"/>

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 Real/Virtual COM Mode, when Real/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 Real/Virtual COM Mode, When Real/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 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.

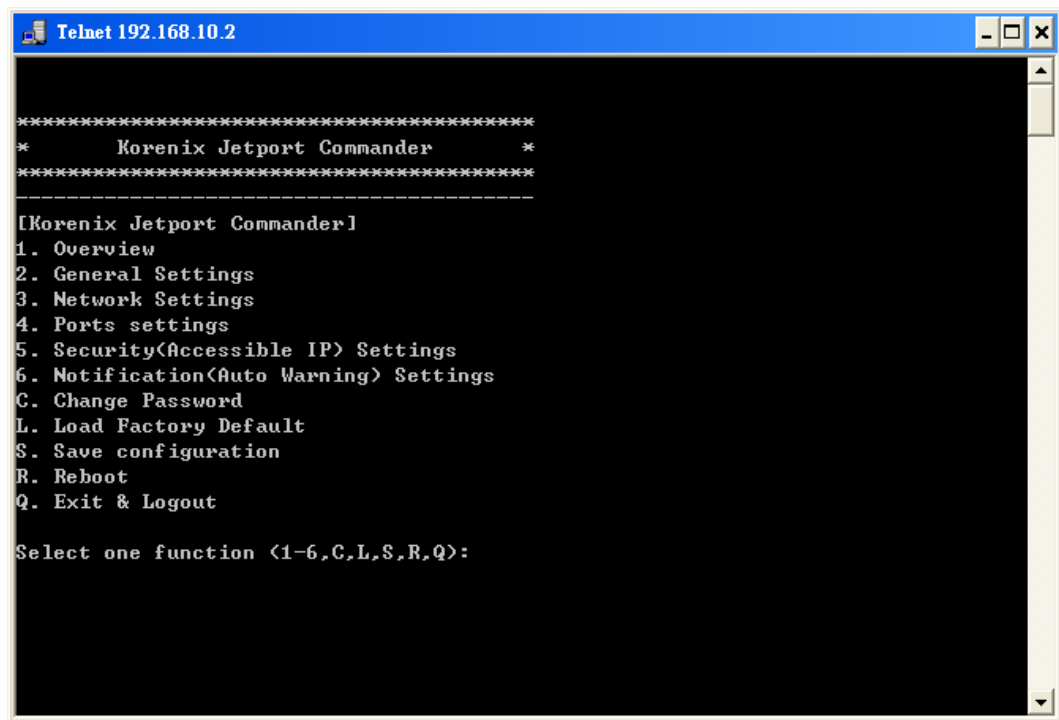
Import Configuration: Retrieve saved configuration file to apply in the device.

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.

A screenshot of a Telnet window titled "Telnet 192.168.10.2". The window displays a menu for "Korenix Jetport Commander". The menu items are: 1. Overview, 2. General Settings, 3. Network Settings, 4. Ports settings, 5. Security(Accessible IP) Settings, 6. Notification(Auto Warning) Settings, C. Change Password, L. Load Factory Default, S. Save configuration, R. Reboot, and Q. Exit & Logout. Below the menu, it says "Select one function <1-6,C,L,S,R,Q>:". The window has a blue title bar and standard window controls (minimize, maximize, close) in the top right corner.

```
Telnet 192.168.10.2

*****
*      Korenix Jetport Commander      *
*****
-----
[Korenix Jetport Commander]
1. Overview
2. General Settings
3. Network Settings
4. Ports settings
5. Security(Accessible IP) Settings
6. Notification(Auto Warning) Settings
C. Change Password
L. Load Factory Default
S. Save configuration
R. Reboot
Q. Exit & Logout

Select one function <1-6,C,L,S,R,Q>:
```

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				
atIfIndex	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	ipNetToMediaIfIndex	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	snmpInTooBig	snmpInNoSuchNames	snmpInBadValues	snmpInReadOnlys
snmpInGenErrs	snmpInTotalReqVars	snmpInTotalSetVars	snmpInGetRequests	snmpInGetNexts
snmpInSetRequests	snmpInGetResponses	snmpInTraps	snmpOutTooBig	snmpOutNoSuchNames
snmpOutBadValues	snmpOutGenErrs	snmpOutGetRequests	snmpOutGetNexts	snmpOutSetRequests
snmpOutGetResponses	snmpOutTraps	snmpEnableAuthenTraps	snmpSilentDrops	snmpProxyDrops

RFC1317 RS232 supported SNMP variables

RS232 MIB				
rs232Number	rs232PortIndex	rs232PortType	rs232PortInSigNumber	rs232PortOutSigNumber

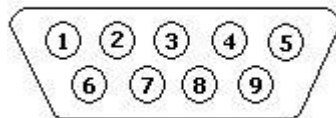
rs232PortInSpeed	rs232PortOutSpeed	rs232PortInFlowType	rs232PortOutFlowType	
rs232AsyncPortIndex	rs232AsyncPortBits	rs232AsyncPortStopBits	rs232AsyncPortParity	rs232AsyncPortAutobaud
rs232AsyncPortParityErrs	rs232AsyncPortFramingErrs	rs232AsyncPortOverrunErrs		
rs232InSigPortIndex	rs232InSigName	rs232InSigState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

B

RS232 Pin Assignment

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



C

Revision History

Version	Description	Date
V1.4	Update Win 7 Setup.	Aug. 2014
V1.3	Add Real COM	July 2012
V1.2	Remove Linux TTY driver	July 2009
V1.1	Correct Serial Port LED color	Oct. 2008
V1.0	The first version.	Mar. 2006