Korenix JetPort 5601
Serial Device Server

User's Manual

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1 Introduction

JetPort 5601 is a smart 1-port RS-232/422/485 to Redundant Ethernet Serial Device Server. The serial interface is configurable in software and supports speed as fast as 921.6kbps. The Dual Ethernet ports can support RTTD (Redundant to the Device) or connect as Daisy Chain. With RTTD, the redundant Ethernet ports can auto-recover in less than 200ms if the master link breaks, as a result guaranteeing a non-stop connection, which provides users the complete Redundant Ethernet Solution.

JetPort serial device server connects the serial port of devices such as card readers, measurement devices, or data acquisition terminals, over Ethernet just like locally attached. It 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 5601 has the following features:

- 3-in-1 RS232, RS422, RS485 to Redundant Ethernet Solution
- Max. Serial Speed: 921.6 kbps
- Dual Ethernet Ports for Daisy Chain or RTTD (Redundant to the Device, Auto-Recovery in less than 200ms)
- Dual Power Inputs by 12-48VDC Terminal Block and 9-30V DC Jack.
- Secured Management by HTTPS and SSH.
- JetPort Commander, Korenix Windows Utility for Device Discovery, Multiple Device Setting and Monitoring.
- Versatile Serial Modes: Real/Virtual Com, Serial Tunnel, TCP Server, TCP Client, UDP
- Up to 5 Simultaneous Real/Virtual COM, TCP Server, TCP Client Connections
- Event Warning by Syslog, Email, SNMP trap
- Real/Virtual COM driver for Windows Win 10/8/7/Vista/XP/2008/2003/2000
- Operating Temperature: -20~70°C

Product Specification

Network Interface	
Ethernet	2 x 10/100BaseTX Ports
Connector	RJ-45 Auto MDI/MDI-X
Feature	Redundant Dual Ethernet, auto-recovery in less than 200ms
Protection	Built-in 1.5 KV magnetic isolation protection
Protocols	IP, TCP, UDP, ICMP, DHCP, BootP, ARP/RARP, SSH, SNMP, HTTPS, SNTP, SMTP

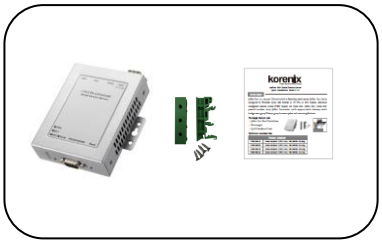
Serial Communication	
Serial Ports	1 x RS-232,RS-422, 2/4-wire RS-485
Connectors	Male DB9
Baud Rates	50 bps to 921.6K bps
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Even, Odd, Space, Mark
RS-232	DCD, RXD, TXD, DTR, GND, DSR, RTS, CTS,RI
RS-422	Tx-, Tx+, Rx+, Rx-, GND
RS-485(4-wire)	Tx-, Tx+, Rx+, Rx-, GND
RS-485(2-wire)	Data-, Data+, GND
Flow Control	XON/XOFF, RTS/CTS
Serial Line Protection	15KV ESD
Long Distance Termination	120ohm
Features	
LED	Power : Power On(Green) Ethernet 1/Ethernet 2 : 10/100M Link(Green) Serial: Transmitting data(Green), Receiving data(Red)
Configuration	Windows Utility-JetPort Commander, HTTPS, SSH
Serial Service	Real/Virtual COM, TCP Server, TCP Client, TCP Tunnel and UDP
Reset	Software reload default, Hardware reset button
SNTP	For time management
Access IP Table	16 IP addresses to prevent illegal users
Monitor	Devices' status, Real/Virtual COM status
SNMP	RFC1213 MIB II, RFC1317 RS232_like and SNMP Trap
E-Mail Alert	Automatic e-mail warning by pre-defined events
System Log	Trap to Syslog server or local display
System Event	Cold/Warm Start, Login Failed, IP and Password Changed, Access IP Blocked, Serial Port

	DCD/RI/DSR/CTS changed, Serial Port connected/disconnected.
Real COM	32bit & 64bit OS
Windows Utility	
Windows OS	Win 10/8/7/Vista/XP/2008/2003/2000
JetPort Commander	Device Discovery, Auto IP, Network Setting, Device and Serial Port Setting and monitoring, Notification setting, Firmware Upgrade, Configuration Backup and Restore, Group Configuration Wizards
Serial Service Mode	Real/Virtual COM, TCP Server, TCP Client, TCP Tunnel and UDP
Advanced Serial Setting	TCP Alive Check Timeout, Inactivity Idle Timeout, Performance mode, Delimiter, Force TX Timeout for Data Packing, Force TX interval time, Force TX data length and Long Distance Termination
Group Configuration Wizards	JetPort Commander: Group IP Wizard, Group firmware upgrade, Group Backup/Restore, Real/Virtual COM and TCP Tunnel Setup Wizard
Power Requirements	
System Power	PWR1: 12~48VDC with 3-pinTerminal Block PWR2: 9~30VDC Power Jack
Power Line Protection	1 KV Burst (EFT), EN61000-4-4 0.5 KV Surge, EN61000-4-5
Power Consumption	Maximum 3.7 Watts
Mechanical	
Dimension	110mm(W) x 114mm(D) x 29.6mm(H)
Regulatory Approvals	FCC Class A, CE Class A , UL(compliance), RoHS
Environmental	
Operation Temperature	-20~70°C
Operation Humidity	5%~95%, (non-condensing)
Storage Temperature	-40~85°C
Warranty	5 years

Package Checklist

JetPort is shipped with the following items:

- JetPort 5601 Serial Device Server
- Mounting kit
- Quick Installation Guide



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

Optional Accessories

JetPort 5601 is equipped with two types of power inputs, the terminal block and power jack.
If any need of power adapter, please contact your local sales representative.

Power Adapter	
PWA1208-US	Power Adapter 12VDC 0.8A, 100-240VAC US plug
PWA1208-EU	Power Adapter 12VDC 0.8A, 100-240VAC EU plug
PWA1208-UK	Power Adapter 12VDC 0.8A, 100-240VAC UK plug
PWA1208-AU	Power Adapter 12VDC 0.8A, 100-240VAC AU plug

2
Hardware Installation

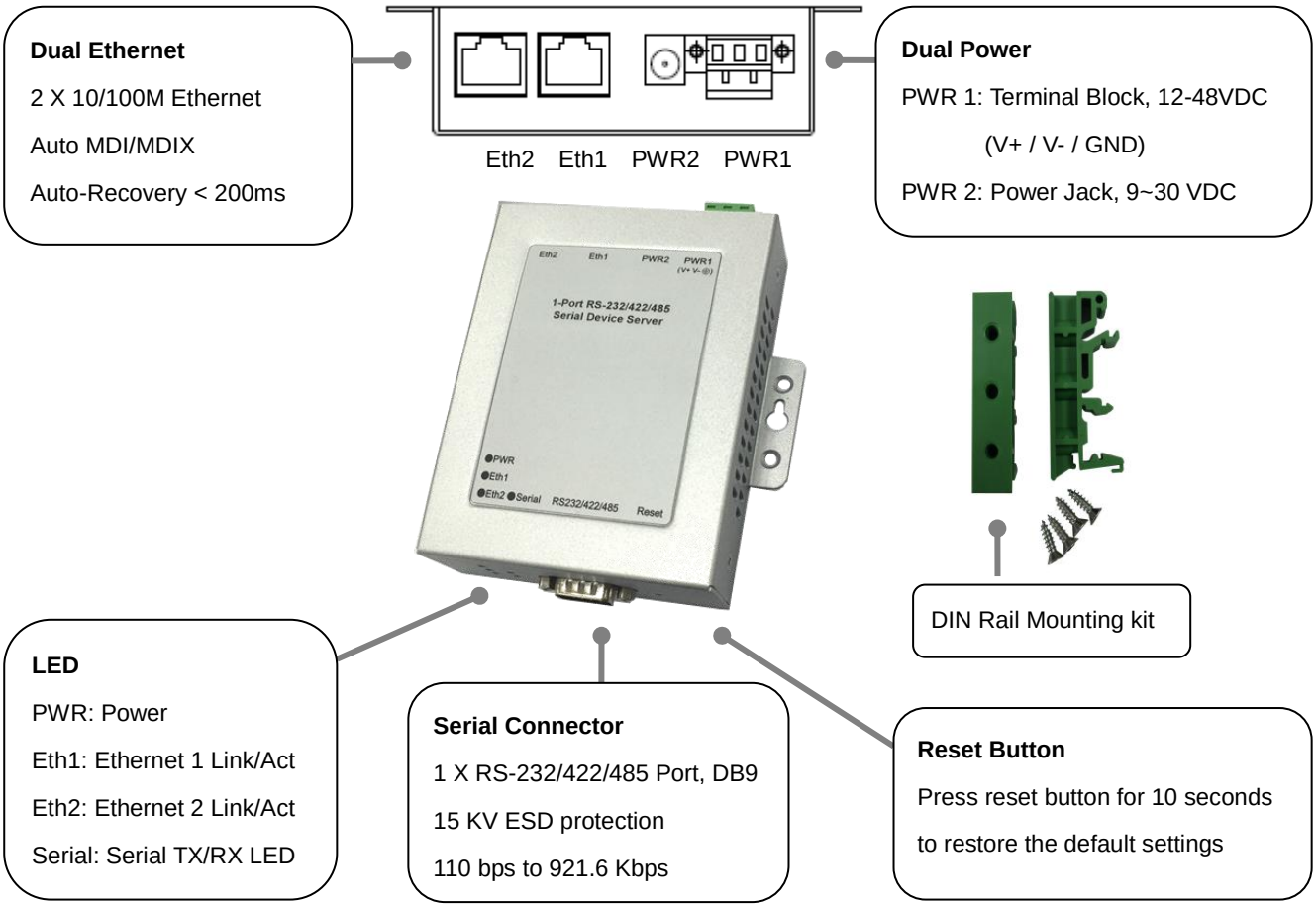
JetPort serial device server can be configured by Windows utility, web browser, or Telnet console. Advanced management features include SNMP support and Email alert. JetPort Commander is a powerful Windows utility that supports device discovery, group setup, group firmware update, and monitoring functions.

This chapter introduces how to quick start JetPort

- **Panel and LED**
- **Reset Button**
- **Connecting the Power**
- **Connecting the Network**
- **Connection the Serial Device**
- **Din-Rail Mounting Installation**

Panel and LEDs

Panel and Interfaces



LED Indicators

There are 5 LEDs in 5601, indicating real-time system status.

LED	Color	Indication
PWR	Green	Power is on and functioning normally.
	Off	Power is off, or power error condition exists.
Eth 1	Green	Solid : Ethernet Link Blinking : Ethernet Activity
	Off	Ethernet cable is disconnected, or has a short.
Eth 2	Green	Solid : Ethernet Link Blinking : Ethernet Activity
	Off	Ethernet cable is disconnected, or has a short.
Serial	Green	Serial port is transmitting data.
	Red	Serial port is receiving data.
	Off	No data is being transmitted or received through the serial port.

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. 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.

Connecting the Power

Terminal Block (PWR1):

1. Insert the positive and negative wires of your DC supply into the V+ and V- contacts of the terminal block connector.

 (GND / V- / V+)

2. Tighten the terminal screws to prevent the DC wires from coming loose.

Power Jack (PWR2):

Connect the power jack input with power adapter. If any need of power adapter, please contact your local sales representative.

If the power input (PWR 1 or PWR 2) is connected, the power LED will turn green.

Note: If the 2 power inputs are connected (PWR 1, PWR 2), the JetPort 5601 will be powered from the highest connected voltage. The unit will not alarm for loss of DC IN power, the alarm function only applies to loss of power at PWR1 or PWR2.

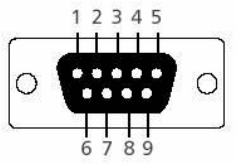
Connecting the Network

Connect the Ethernet cable to the JetPort 5601 10/100M Ethernet port 1, 2 or both. The interfaces support auto MDI/MDIX. If both of the Ethernet port 1 and 2 are connected when startup device, the Ethernet port 1 will be the master port, Ethernet port 2 will be the backup. But, if Ethernet port 2 is attached first before attach port 1, the Ethernet port 2 will remain the master port.

Connecting the Serial Device

Connect the serial device to the unit DB9 male port by the pin assignment table.

Pin Assignment

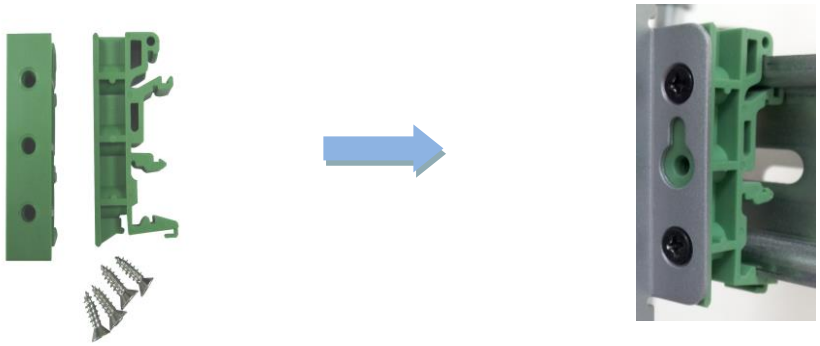


Pin #	RS232	RS422	RS485 (4 wire)	RS485(2 wire)
1	DCD	TX-	TX-	DATA-
2	RXD	TX+	TX+	DATA+
3	TXD	RX+	RX+	
4	DTR	RX-	RX-	
5	GND	GND	GND	GND
6	DSR			
7	RTS			
8	CTS			
9	RI			

Din-Rail Mounting Installation

Follow these steps to mount the unit to the rail/track.

1. Use a screwdriver to secure the D3in-Rail mounting kit to the ear.



Wall-Mounting Kits.

2. Lightly push the 5601 into the rail/track.

The figures show the 5601 is attached on the rail/track well.

3. To remove the unit from the rail/track, reverse steps 1-3.

Notice: Due to the safety concern, Korenix requests users to vertically mount the 5601 device to the rail when using the Terminal Block as the power input. Use the certificated power supply, assured power construction in your factory as the power source.

3
Windows Management Tool

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

Below are the major functions in JetPort Windows Commander. This chapter introduces you the **Software Quick Setup.** You can know how to install the JetPort Commander and setup the Real/Virtual COM mode.

The “JetPort Commander Manual” introduces the full configuration of JetPort commander. You can download from Korenix web site. www.korenix.com

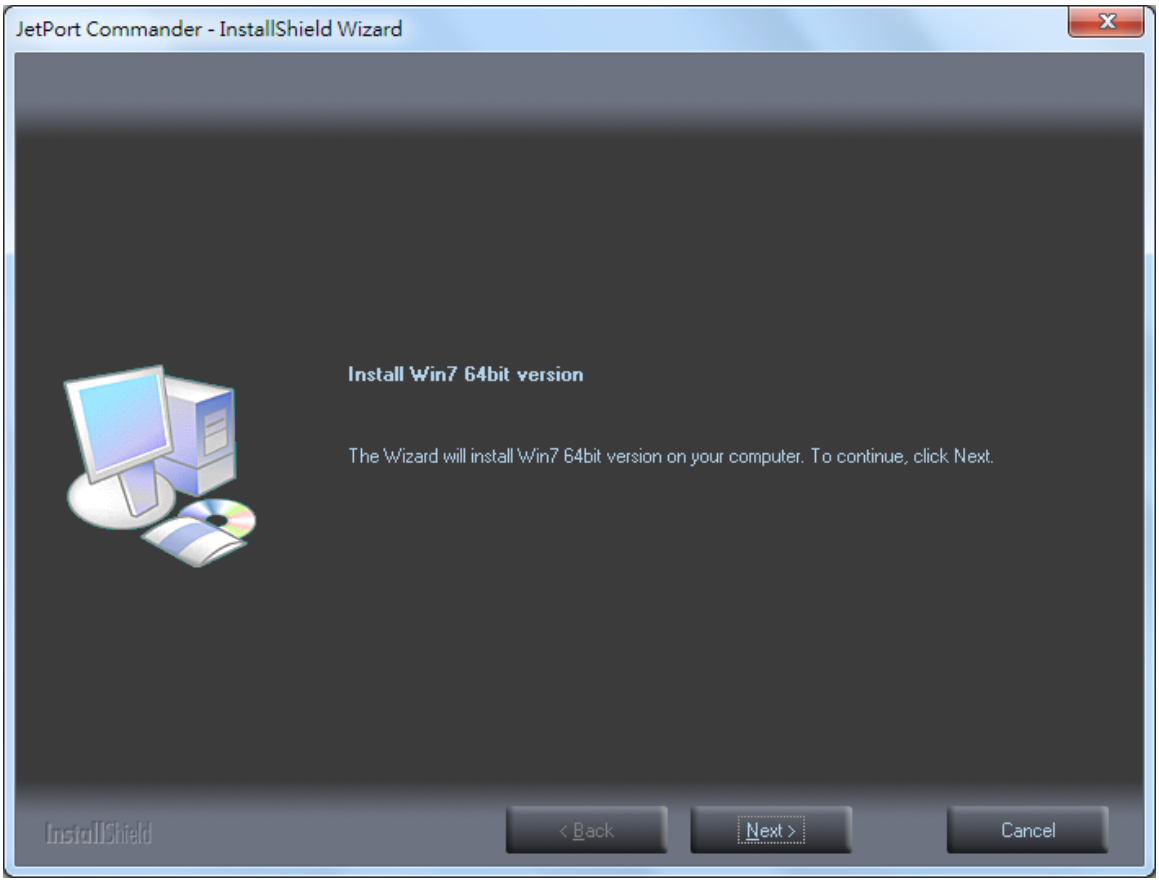
- **Server Configuration**
  - **Broadcast**
  - **Configuration**
  - **General**
  - **Locate**
  - **Security**
  - **Networking**
  - **Notification**
  - **Management**
  - **Firmware Update**
  - **Save / Reload**
- **Port Configuration**
  - **Port Serial Settings**
  - **Port Service Mode**
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

Software Quick Setup

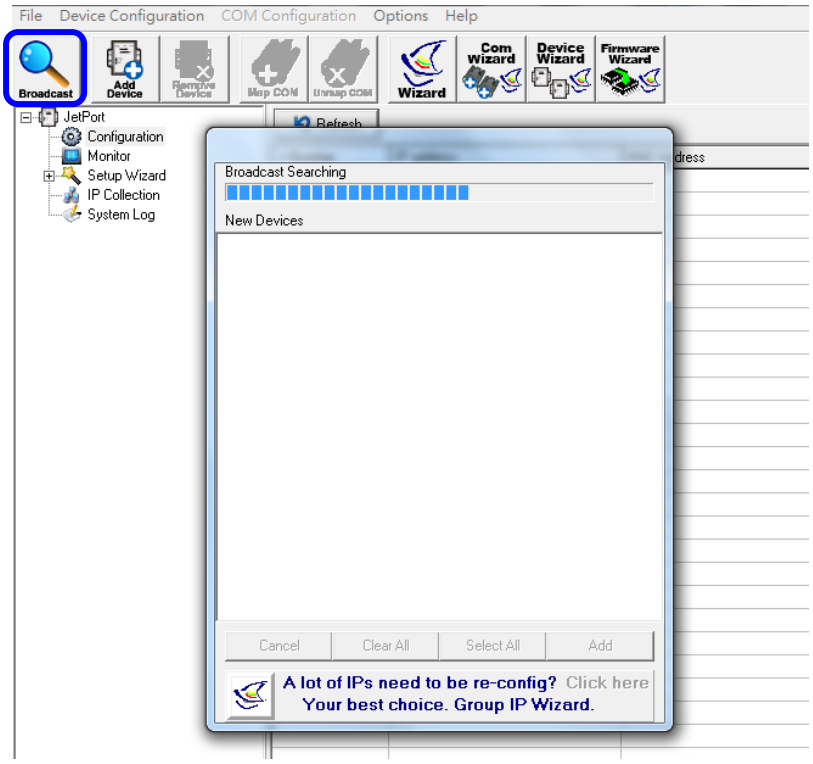
JetPort Commander is an easy-to-use utility with auto device discovery in a LAN or adding devices on the public network. All of the configurations on the serial server can be done in the JetPort Commander. You can also apply configurations of one serial server to the other serial servers. This document shows you how to quick setup the software. The full functions and configurations' description, please refer to the JetPort Commander Manual which you can download from Korenix web site.

Install JetPort Commander

1. Download JetPort Commander program on the Korenix website.
   Korenix website ► Support ► Download Center ► JetPort Commander ► Software (http://www.korenix.com/support-jetport-software.htm).
2. Run JetPort Setup.exe to install Windows utility, JetPort Commander.
   It will automatically detect OS of your PC. After installation, you should reboot your PC for the settings to take effect.



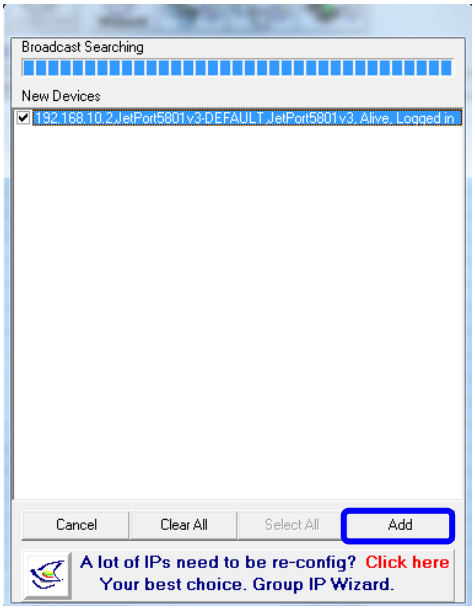
3. **Broadcast the JetPort unit:** JetPort Commander will broadcast the network and search all available JetPort units in the network. The default IP address of JetPort is “192.168.10.2”.



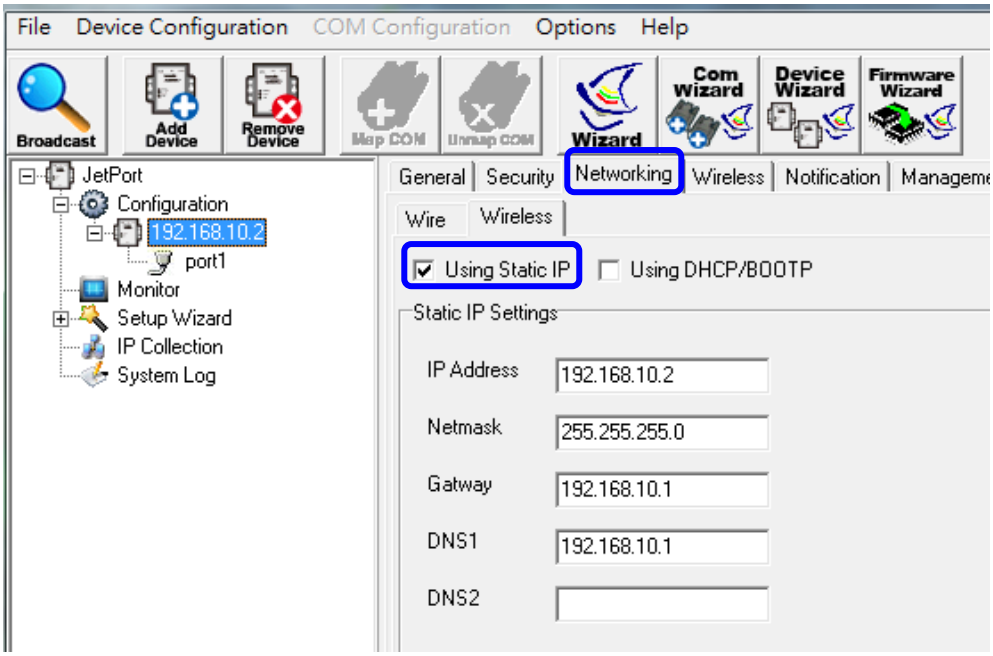
Product Tip: If you have multiple Network Adapters (i.e. wireless and wired), please activate ONLY ONE Network Adapter that can locate the JetPort devices, and CLOSE the rest Network Adapters. Otherwise, JetPort Commander may broadcast INCORRECTLY.

4. **Configuring the JetPort unit:**

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

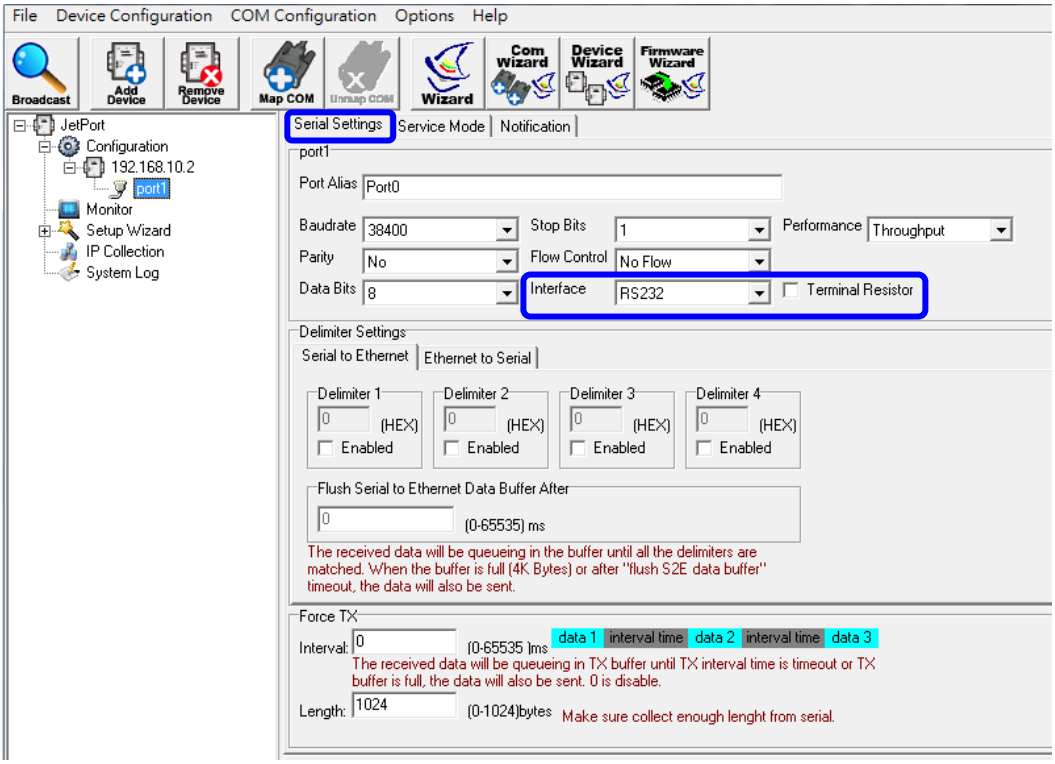


4.2 Go to “Configuration”, and choose the device. Select “Networking” to the network settings page. Select “Using Static IP” if you want to specify the network parameters, or select “DHCP/BooTP” if you want dynamic configuration for the JetPort unit.

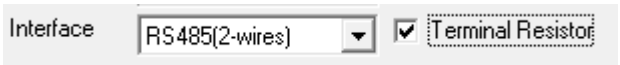


5. Configuring the serial port as COM port:

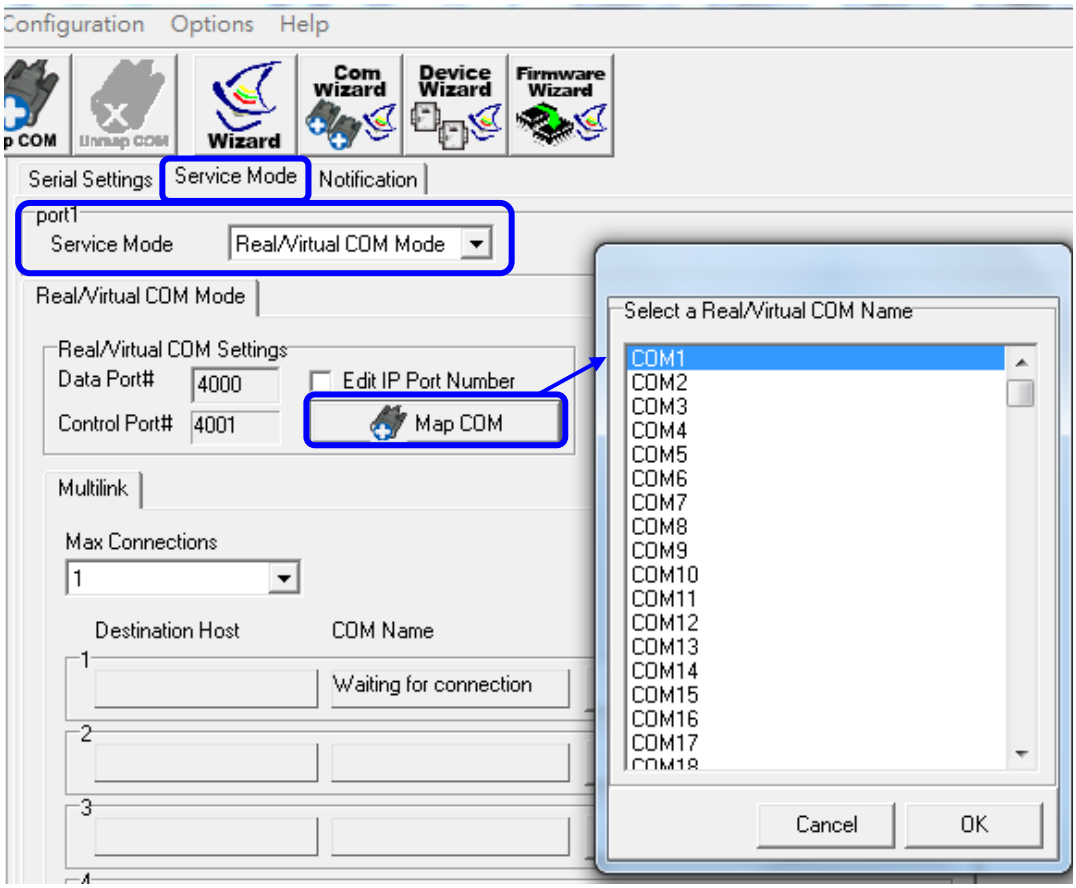
5.1 Go to “Configuration”, and choose the device and the “port”. Select “Serial Settings” to configure the serial settings.



Notice: If you choose RS 485(2-wire) interface, for better connection, please Check “Terminal Resistor.”



5.2 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 download from Korenix web site.*

4
Web and Telnet Console

In addition to Windows utility, JetPort 5601 can also be managed by Web-HTTPS and the SSH Console.

The HTTPS is a security protocol that provides communication privacy over the internet. The HTTPs packets transmitted between the JetPort and PC would be encrypted.

The SSH allows users to securely login to remote host computers, to execute commands safely in a remote computer, to securely copy remote files and to provide secure encrypted and authenticated communications between two non-trusted hosts.

This chapter describes:

- **HTTPS Console**
  - Server Configuration
  - Port Configuration
  - Management
  - Save / Restart
- **SSH Console**
  - SSH Client
  - 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 https://192.168.10.2 (Note: you can just type http://, this is not allowed in HTTPS. You should type https://.)

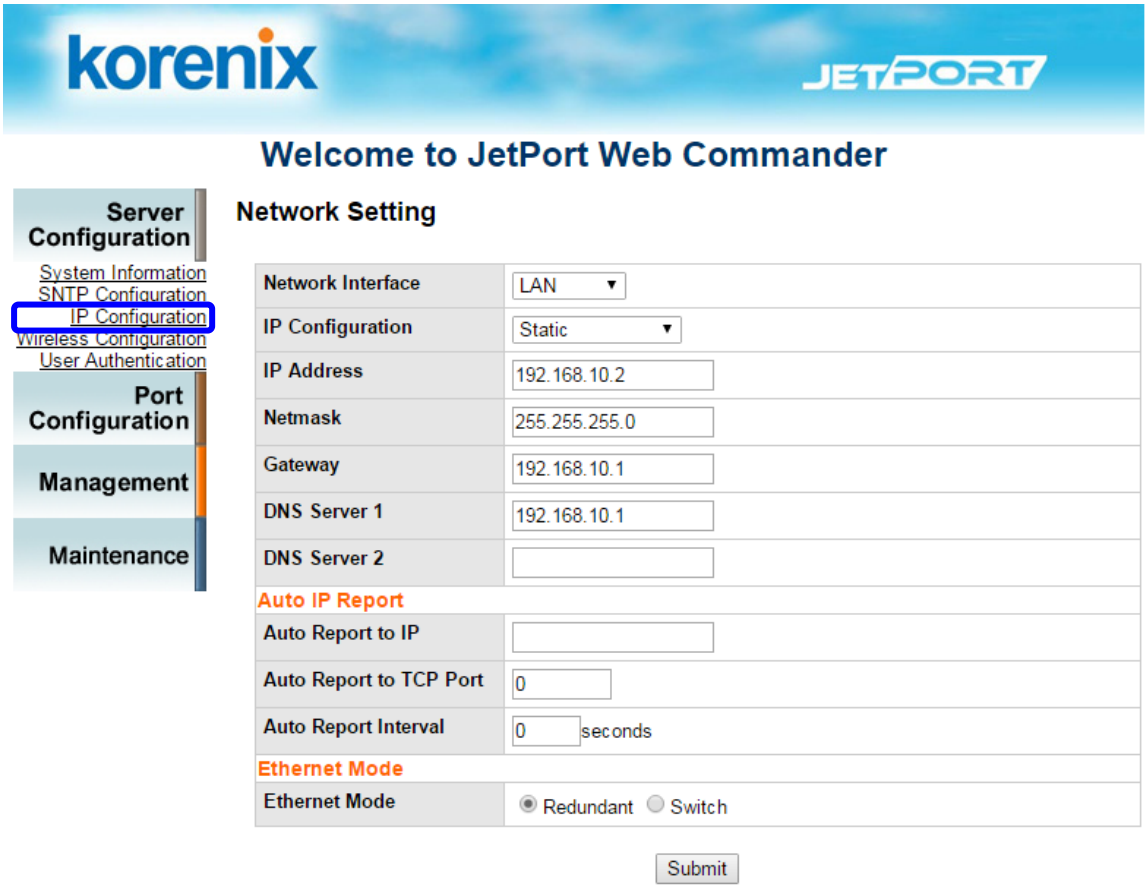
If the JetPort is password protected, use the pre-assigned password to login first.

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

Server Configuration

SNTP Configuration Page configures Server name, Time Server, and Telnet console enable/disable.

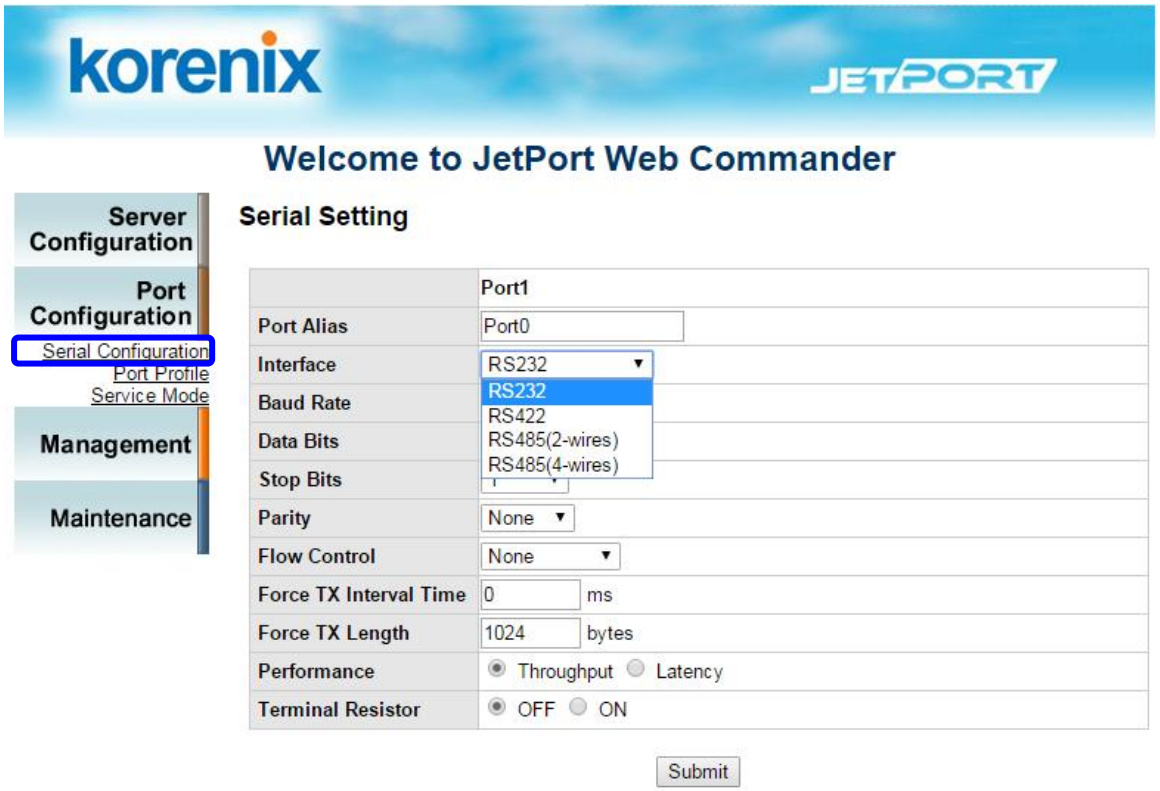
IP Configuration Page configures the IP address, netmask, gateway, and DNS server for the JetPort. Auto IP report is for dynamic IP address reporting in defined intervals.



In User Authentication, you can define administration password to protect the JetPort from unauthorized modification. Avoid using space in password.

Port Configuration

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



Notice: If you choose RS 485(2-wire) interface, for better connection, please turn ON “Terminal Resistor”.

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

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).

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

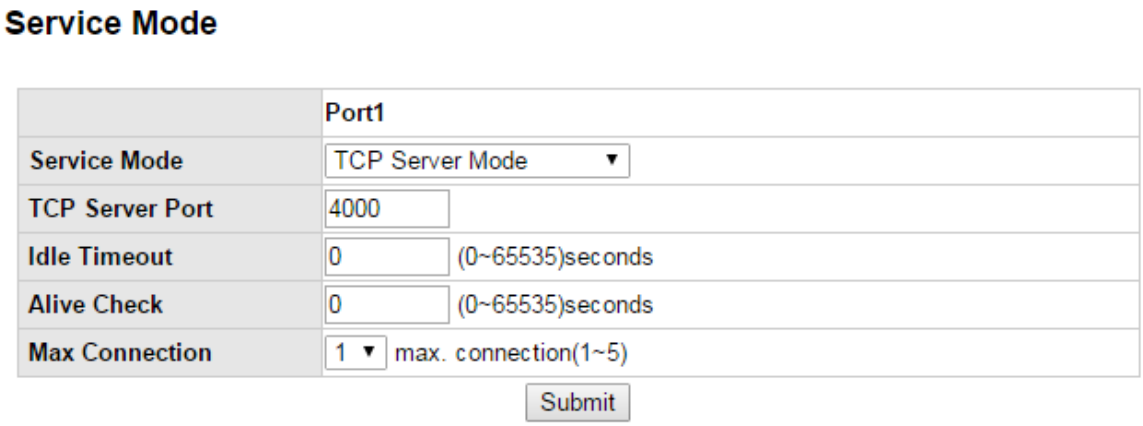
In Service Mode Page, Real/Virtual COM mode, you need to define the available port number, Idle timeout, Alive check, and Max. connections allowed from 1 to 5.

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.



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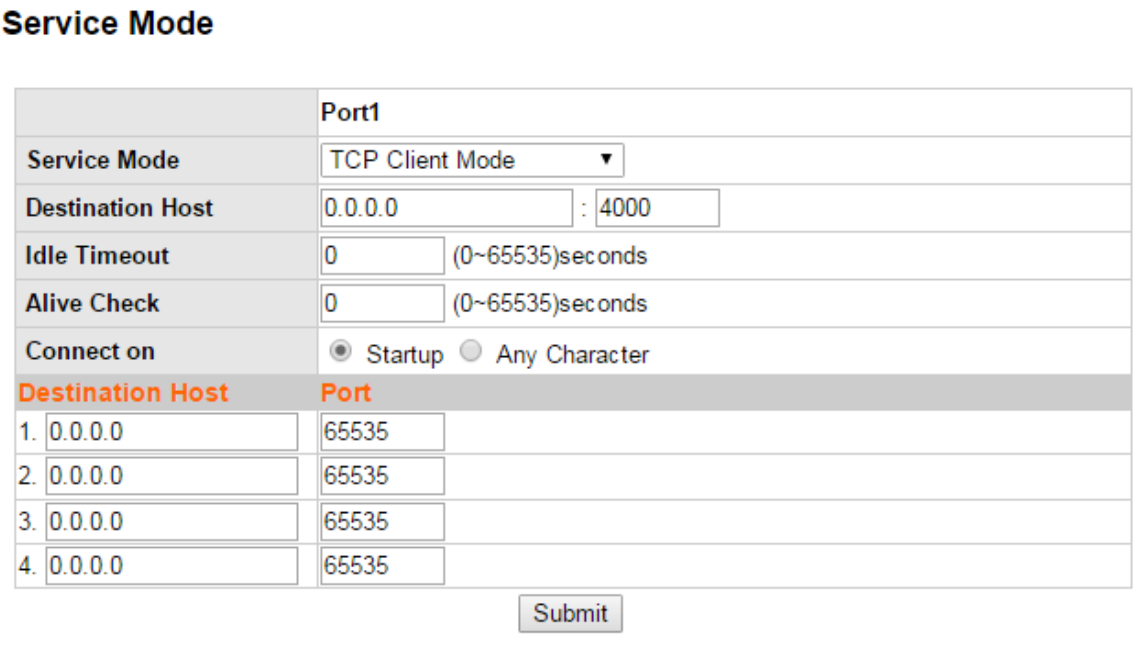
Alive Check: The JetPort device will send TCP alive check package in each defined time interval (Alive Check) to remote host to test the TCP connection. If the TCP connection is not alive, the connection will be closed and the port will be freed for other hosts. Zero is disable this setting (default).

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.



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

	Port1	
Service Mode	UDP Mode	
Listen Port	4000	
Host start IP	Host end IP	Send Port
1. 0.0.0.0	0.0.0.0	65535
2. 0.0.0.0	0.0.0.0	65535
3. 0.0.0.0	0.0.0.0	65535
4. 0.0.0.0	0.0.0.0	65535

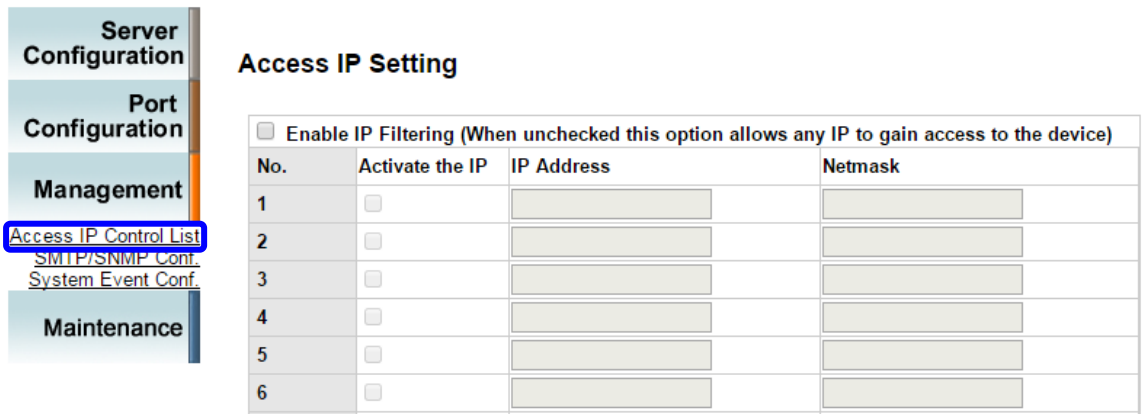
Submit

Management

Access IP Control 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.



SMTP/SNMP Conf.

SMTP/SNMP 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.

E-mail and SNMP Trap

E-mail Settings	
SMTP Server	Port
My server requires authentication	
User Name	
Password	
E-mail Sender	
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.

Port Notification			
DCD Changed	Mail	Trap	Syslog
DSR Changed	Mail	Trap	Syslog
RI Changed	Mail	Trap	Syslog
CTS Changed	Mail	Trap	Syslog
Port Connected	Mail	Trap	Syslog
Port Disconnected	Mail	Trap	Syslog

System Event Conf.

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

Event Notification

Device Notification			
Hardware Reset (Cold Start)	Mail	Trap	Syslog
Software Reset (Warm Start)	Mail	Trap	Syslog
Login Failed	Mail	Trap	Syslog
IP Address Changed	Mail	Trap	Syslog
Password changed	Mail	Trap	Syslog
Access IP Blocked	Mail	Trap	Syslog
Redundant Power Changed	Mail	Trap	Syslog
Redundant Ethernet Changed	Mail	Trap	Syslog
Port Notification			
DCD Changed	Mail	Trap	Syslog
DSR Changed	Mail	Trap	Syslog
RI Changed	Mail	Trap	Syslog
CTS Changed	Mail	Trap	Syslog
Port Connected	Mail	Trap	Syslog
Port Disconnected	Mail	Trap	Syslog

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 Address Changed: Changing network setting will trigger the event
- Password Changed: Changing the password will trigger the event
- Access IP Blocked: Report blocked IP addresses
- Redundant Power Change: Power change will trigger the event
- Redundant Ethernet Change: Ethernet master port change will trigger the event

Port Notification:

- DCD changed: When DCD (Data Carrier Detect) signal changes, indicating the modem connection status has changed, 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.
- RI changed: When RI (Ring Indicator) signal changes, indicating the incoming of a call, 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.

Select the events and the type of Email, SNMP Trap or Syslog, click Submit to enable it.

Maintenance

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

SSH Console

For using SSH, you should open the SSH Client, assign the IP of the JetPort you'd like to access and enter the correct Username/Password, then you can enter the SSH console menu.

SSH Client

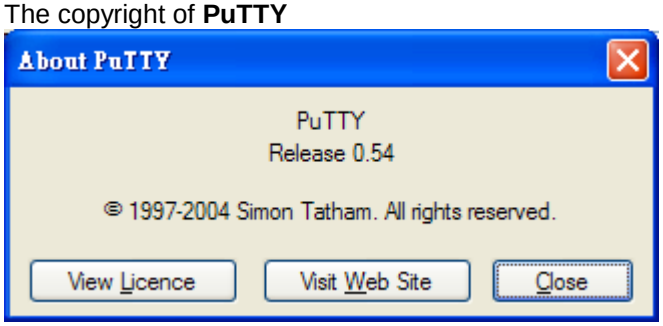
There are many free, shareware, trial or charged SSH clients you can find in the internet. Fox example, PuTTY is a free and popular Telnet/SSH client, we'll use this tool to tell you how to login the JetPort by SSH. Note: *PuTTY is copyright 1997-2006 Simon Tatham*.

Download PuTTY: http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

JetPort Settings: Enable the "Telnet Management Enable" to enable the SSH feature of JetPort 5601/5601f. Click "Goto Telnet Management" will ask you to open the SSH client.

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

The copyright of **PuTTY**

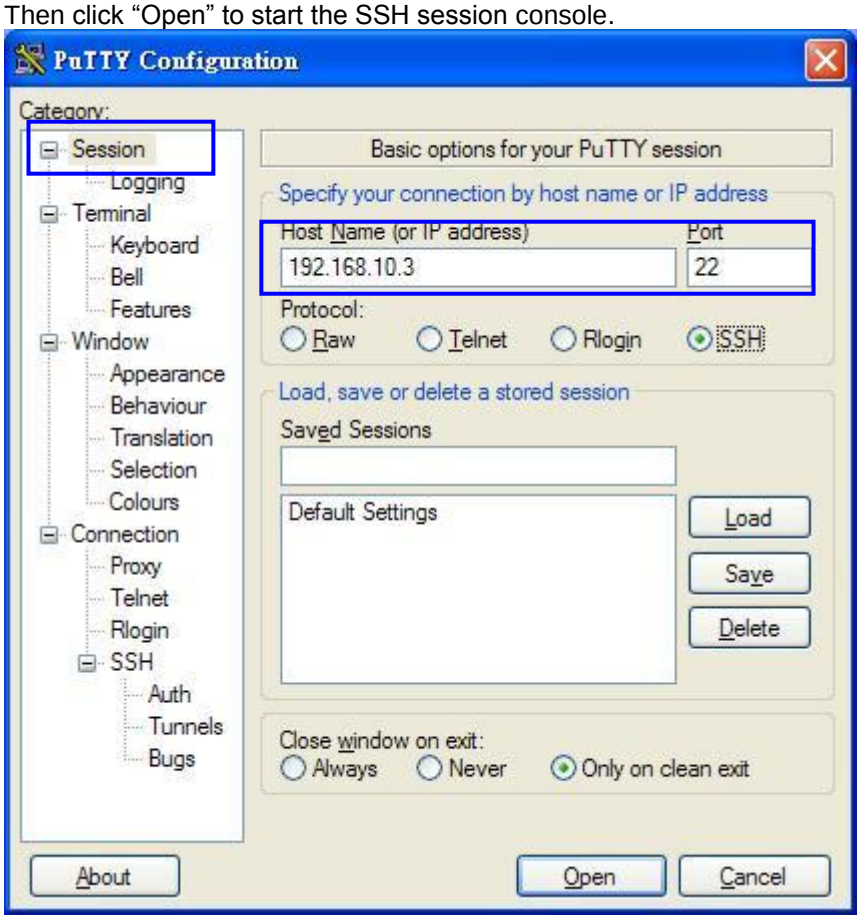


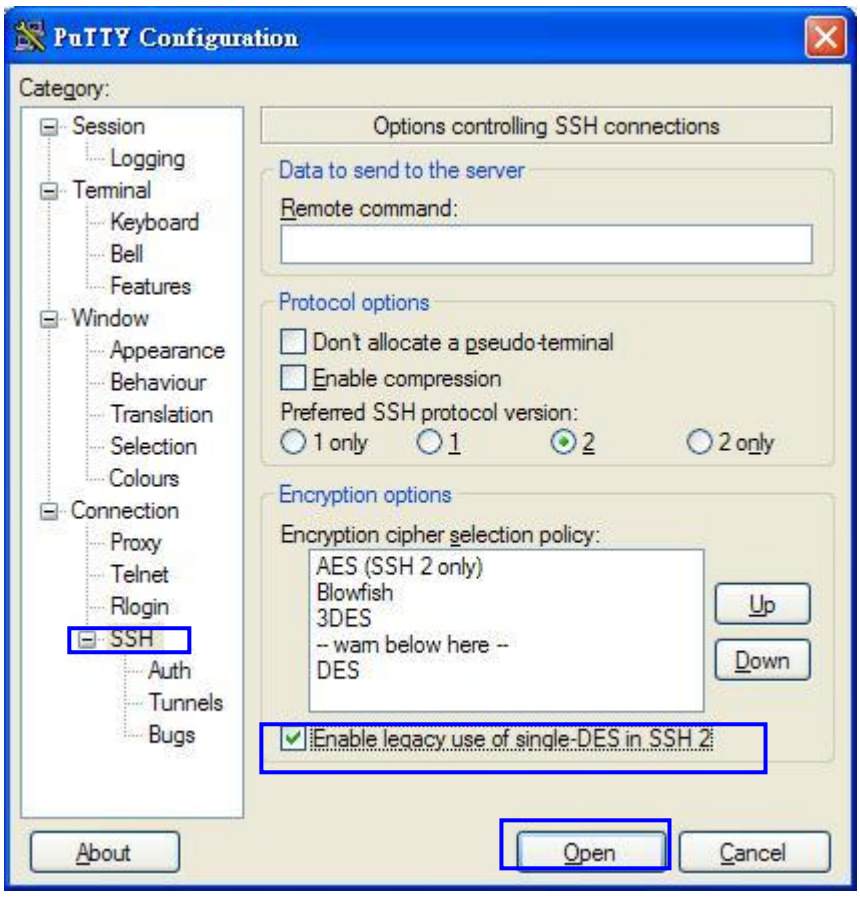
Open the PuTTY

In the Session sub-tree, enter the Host Name (IP Address of your JetPort) and Port number (default = 22). Choose the “SSH” protocol.

In the SSH sub-tree, select the “Enable legacy use of single-DES in SSH2”.

Then click “Open” to start the SSH session console.



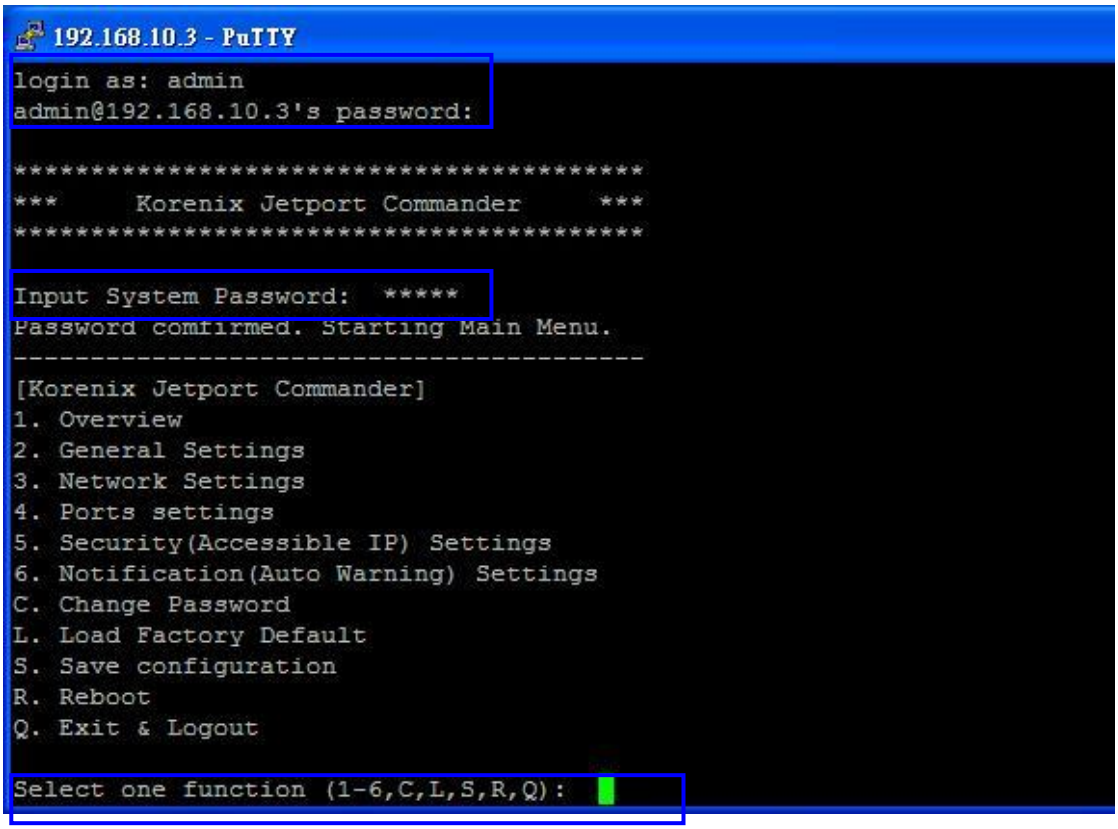


SSH Console is opened. The default username of the SSH public key is admin, password is admin. You can see the console as below:

L**ogin as:** admin
admin@192.168.10.3's password: (admin)

****
*** Korenix JetPort Commander ***
****

Input System Password: ***** (The password you setup in the Jetport commander.)
Password confirmed. Starting Main Menu.
You can start to configure your JetPort by SSH console.



Type the Password you setup in the JetPort Commander.

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 **5601** 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 5601.

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	snmpInTooBigs	snmpInNoSuchNames	snmpInBadValues	snmpInReadOnlys
snmpInGenErrs	snmpInTotalReqVars	snmpInTotalSetVars	snmpInGetRequests	snmpInGetNexts
snmpInSetRequests	snmpInGetResponses	snmpInTraps	snmpOutTooBigs	snmpOutNoSuchNames
snmpOutBadValues	snmpOutGenErrs	snmpOutGetRequests	snmpOutGetNexts	snmpOutSetRequests
snmpOutGetResponses	snmpOutTraps	snmpEnableAuthenTraps	snmpSilentDrops	snmpProxyDrops

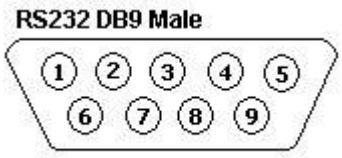
RFC1317 RS232 supported SNMP variables

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	

B

RS232 Pin Assignment

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



C

Revision History

Version	Description	Date
V3.1	Add Terminal Resistor notice	Nov.2015
V3.0	For JetPort 5601 V3.0	Oct. 2015
V1.5	Update Win 7 Setup.	Aug. 2014
V1.4	Add Real COM	July 2012
V1.3	Remove Linux TTY driver	July 2009
V1.2	Correct Serial Port LED color.	Oct. 2008
V1.1	Add Din-Rail Mount Installation and notice.	Mar. 2007
V1.0	The first released version.	Aug. 2006