



JetPort 5801 V3
Wireless Serial Device Server
User Manual

V1.0 Oct. 2016

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About This Manual

This user manual provides the following notes:

1. The Declaration of Conformity policy and manufacturer information.
2. The Safety Precaution and important notification.
3. The technical specification of the product.
4. The instruction on how to install and configure your product.

Please read this document carefully and only trained and qualified personnel should be allowed to install, replace, or service this equipment.

Conventions

For your attention on important parts, special characters and patterns are used in this manual:



Note:

This indicates an important note that you must pay attention to.

The Blue Wording is important note that you must pay attention to.

The Blue Wording with Big Case is very important note you must pay more attention to.

Bold: Indicates the function, important words, and so on.

Declaration of Conformity

R&TTE Directive 1999/5/EC

The product may be operated in all European Union countries. The R&TTE (1995/5/EC) Directive requires that apparatus bears the CE mark as an attestation of compliance with the R&TTE Directive. While you see the CE Marking print in our product, it indicates the product conform to the requirement of the R&TTE Directive.

We provide formal declaration of R&TTE for Wireless product in our web site, different product may conform to different standards of Health & Safety, EMC, Radio and other specific standard. You can download the formal document of the product in our Web site or apply from our Sales/Technical people.

The declaration of R&TTE is authorized at the following company and address.

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TEL: +886-2-8911-1000

Safety Precautions – JetPort/JetWave Wireless Product

General Notification

- Only operate the device according to the technical specification. You can find the information from the product datasheet, user manual...etc.
- Read the installation instructions before connecting the system to the power source.
- If you don't get exact info you need, you can contact Korenix technical people, korecare@korenix.com. Only trained and qualified personnel should be allowed to install, replace, or service this equipment.

- The devices are designed for operation with extra-low voltage (SELV). Connect the unit only to DC power source that complies with the safety extra-low voltage (SELV) requirements in IEC/EN 60950 based safety standards.

Solely connect the power supply that corresponds to the type of your device. For power connection, make sure the following requirement are met:

- The DC power circuit of the product is isolated design circuit. In practical, it is suggested to use isolated DC power design PSU for field installation. Besides the PSU selection, well digital/earth grounding is also important before power on the system.
- The Power Supply conforms to the overvoltage category I or II.
- The output voltage of the AC/DC to DC Power Supply conforms to the range of the input voltage of the equipment.
- The connection cables used are permitted for the specified electronic voltage, current, wire diameter and temperature range. (Wire Diameter of AC voltage is at least 0.75mm, AWG18. For DC voltage, it is at least 1.0mm, AWG16.)
- Follow the power installing instruction of the user manual, it indicates the input voltage, pin assignment, connection circuit and notice.
- The Power Supply must be well installed, includes grounded and other notices which are defined in its instruction guide.
- Only switch on the supply voltage to the device if the housing is closed, the terminal blocks are wired up correctly and the terminal blocks are connected.

- The equipment must be grounded. Ground the device before connecting the cables, antennas and power supply. The grounding of the equipment and DC Power Supply may be different in some applications, then, you must ground them separately.
- Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.

Passive PoE

- Since the Ethernet cable may lead voltage drop, the CAT 5 or above standard cable is suggested, and the maximum Ethernet cable restriction is under 100 meter.
- Users MUST use the safety certificated passive PoE injector with the passive PoE power input. The Industrial passive PoE injector/adapter is recommended.

Environment & Housing

- Hot surface. Avoid touching the device while it is operating.
- Only operate the device at the specified ambient temperature and humidity. The temperature of the surrounding air means a distance of up to 5cm from the device. While installing multiple devices within the cabinet, remains suitable width between the devices is MUST for better heat dispersing.
- Better install the device in the vertical position, with the upper antenna connections pointing upward, lower antenna pointing downward.
- Install the device in a cabinet or in an operating site with limited access, the metal cabinet will filter the radio signals, use the extended antenna cable and install the external antenna in free space helps to get better Radio signal.
- Only technicians authorized by the manufacturer are permitted to open the housing. Without the manufacturer permitted, open the housing means the product is not warrantied and no responsible for any unexpected risk.

Installation

If you are installing the wireless equipment in the field box or outdoor area, for your safety as well as others', please seek assistance from a professional installer who has received safety training on the hazards involved. Keep safety as well as performance in mind when selecting your installation site, especially where there are electric power and phone lines.

Please note the following things as well:

- Do not use a metal ladder
 - Do not work on a wet or windy day
 - Wear shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
-
- If you are installing the equipment in the indoor office or factory, be aware of the power source and grounding must be well installed. The professional Wireless IT Engineer can provide service for AP location, channel and field plan to get better performance and coverage.
 - Connect the equipment which meets the IP degree of protection requirements for the application case.
-
- Read the Radio output power, receiver sensitivity, antenna gain specification before installing. The shipped products and antenna conforms to the R&TTE and allowed to be used in all European countries. You can read the related technical specification from the product datasheet or user manual.
 - When installing external antennas, the Radio Output power and antenna gain value must be allowed according to the regulations of the country.
 - When the system is operational with high gain antenna, avoid standing directly in front of it. Strong RF fields are present when the transmitter is on.
 - When the system is operational with high gain antenna in short distance, adjust the radio output lower. Strong output power plus high gain antenna is not good installation for short distance transmission.
-
- You are responsible for undertaking suitable lightning protection.
 - Install over voltage protector devices on every outdoor Ethernet cable.
 - Protect each antenna installed outside with lightning protection devices, ex: lightning arrester.

Note that Field EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

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Chapter 1

Introduction

Chapter 1 Introduction

2.1 Introduction

The user manual is applied to Korenix JetPort 5801 V3 Industrial Wireless Serial Device Server. JetPort 5801 V3 provide perfect solution to manage serial devices via Ethernet/Wireless in flexible ways, such as TCP server, TCP client, UDP or Windows Real COM. JetPort creates a transparent gateway for the serial communication to Ethernet/Wireless. The Wireless LAN solution is 802.11b/g/n with up to 300Mbps data rate. Give you an easy way and high bandwidth connection to the hard-to-wire or moved serial devices, ease your network cabling problem in the field.

2.2 Product Package

The product package you have received should contain the following items.

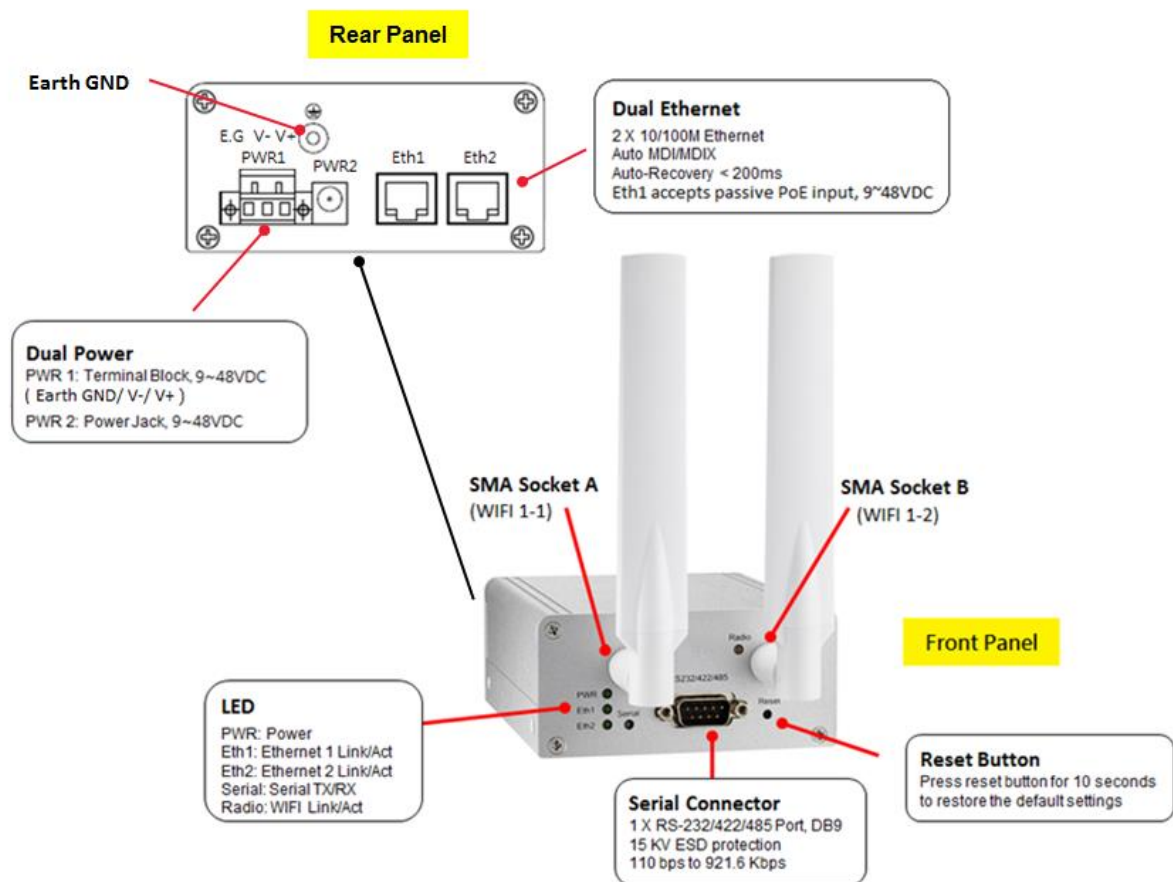
Package
JetPort 5801 V3 unit 2x Wi-Fi 2.4G Antenna Din-Rail Mounting Kit 3-pin Power input connector Quick Installation Guide Note: Please download the utility and user manual from Korenix Web site.

Optional Accessories		
If any need of power adapter or wall mounting plate, please contact your local sales representative.		
Power Adapter	PWA1208-US	Power Adapter 12VDC 0.8A, 100-240VAC US plug
Power Adapter	PWA1208-EU	Power Adapter 12VDC 0.8A, 100-240VAC EU plug
Power Adapter	PWA1208-UK	Power Adapter 12VDC 0.8A, 100-240VAC UK plug
Power Adapter	PWA1208-AU	Power Adapter 12VDC 0.8A, 100-240VAC AU plug
Wall Mounting Kit	MTK-W-78	Wall Mount Bracket, 78mm(W) x 28mm(H) x 1.60mm(D)

Note 1: Check the Korenix web site order information for new accessories, new version user manual, firmware and utility.

Note 2: If you are not familiar with the feature of the accessories, please consult with our Sales or Technical Service Engineer.

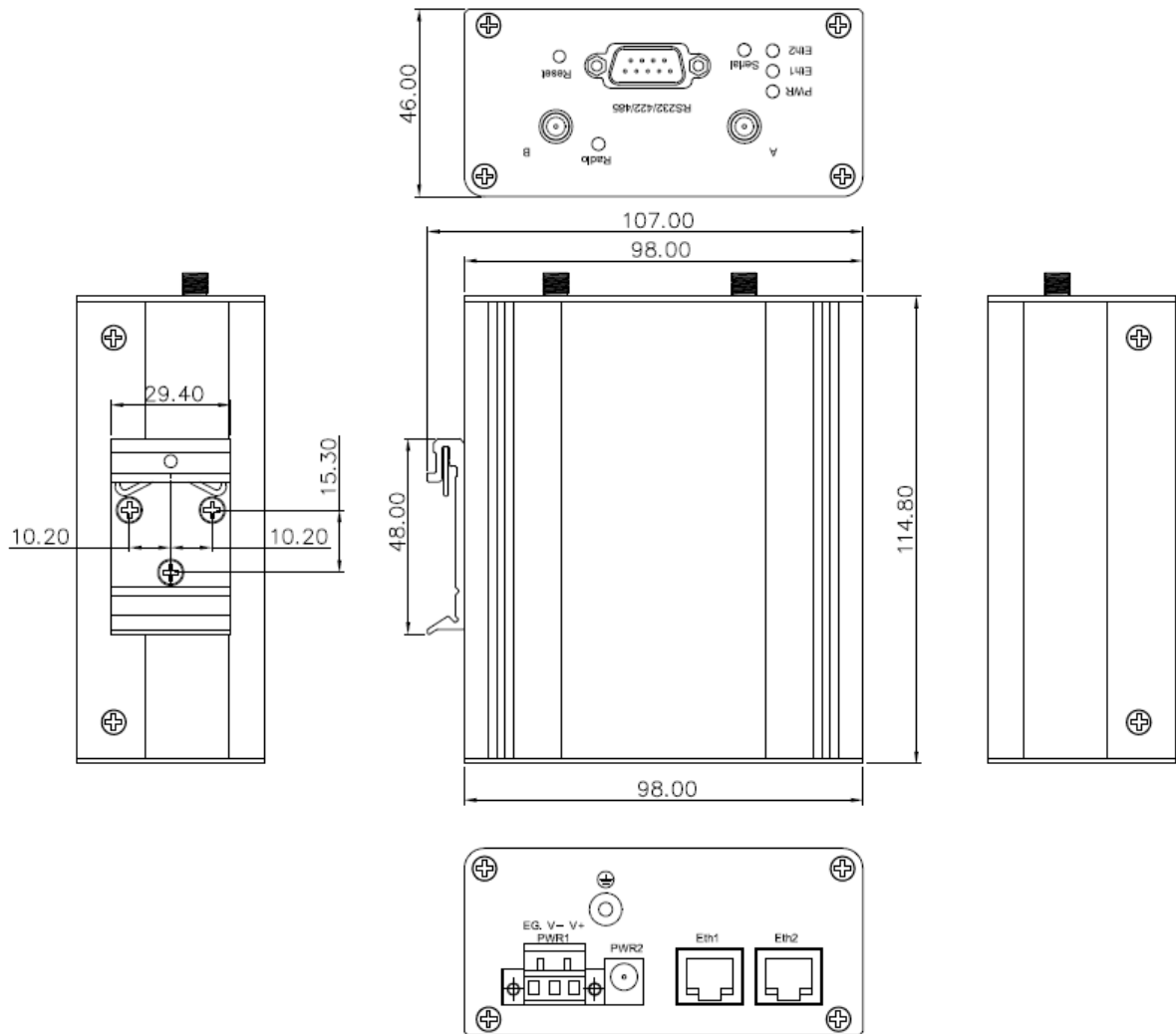
2.3 JetPort 5801 V3 Appearance



2.4 JetPort 5801 V3 Major Features

- Industrial Slim Size Wireless Server
- 1-port RS-232/422/485 to Wireless Network
- IEEE 802.11n 2.4G Wi-Fi, up to 2T2R MIMO, 300Mbps
- 2-port Redundant Fast Ethernet Port
- Versatile Serial Application: Real COM, TCP Server, TCP Client and UDP listening
- Up to 5 Simultaneous Serial Connections
- Management by Web GUI and JetPort Commander
- Event Warning by Syslog, Email and SNMP trap
- Supports Windows 10/8/7/Vista/XP//2008/2003/2000
- Heavy Industrial Grade design
- Operating Temperature: -10~70°C
- Triple Power Inputs by 9~48VDC Terminal Block, Power Jack or Passive PoE

2.5 JetPort 5801 V3 Dimension





Chapter 2

Hardware Installation

Chapter 2 Hardware Installation

This chapter describes safety precautions and product information before installing the JetPort 5801 V3.

2.6 Professional Installation Required

1. Please seek assistance from a professional installer for field installation or professional IT Engineer for indoor installation. These engineers must be well trained in the RF installation and knowledgeable for the Wireless setup and field plan.
2. The JetPort 5801 V3 is distributed through distributors and system installers with professional technicians and will not be sold directly through retail stores.

● Safety Precautions

To keep you safe and install the hardware properly, please refer to the safety precautions in the front pages of this manual. **The Safety Precautions described in the front pages include General Notification, Power Source & Grounding Notification, Environment & Housing Notification and Installation Notification.**

Additional Notification for the product:

1. In practical, it is suggested to use isolated DC power design PSU for field installation. Besides the PSU selection, well digital/earth grounding is also important before power on the system. Connect the Ethernet Cables, Antennas or Antenna RF Cables, Ground and Power Terminal Block well before powering on.
2. If you are installing the product in the field box, for your safety as well as others', please seek assistance from a professional installer who has received safety training on the hazards involved. Keep safety as well as performance in mind when selecting your installation site, especially where there are electric power and phone lines. Please note the following things as well:
 - Do not use a metal ladder
 - Do not work on a wet or windy day

- Wear shoes with rubber soles and heels, rubber gloves, long sleeved shirt or jacket.
4. If you are installing the product in the indoor office or factory, be aware of the power source and grounding must be well installed. The professional Wireless IT Engineer can provide service for location, antenna and field plan to get better performance and coverage.
5. When you exchange to high gain antenna on JetPort 5801 V3, please notice that the Radio Output power and antenna gain value must be allowed according to the regulations of the country. And avoid standing directly in front of high gain antenna. Strong RF fields are present when the transmitter is on.
6. You are responsible for undertaking suitable lightning protection. Install over voltage protector devices on every outdoor Ethernet cable. Protect antennas installed outside with lightening protection devices, ex: lightening arrester.

Note that Field EMD (Lightning) DAMAGE IS NOT COVERED UNDER WARRANTY.

2.7 Power Installation

The system provides triple power input.

● DC Input

1. There is one 3-pin terminal block within the package, 2 of them are applied for screwing the DC wires. Another DC input is the power jack that near the terminal block. It is a good practice to turn off the system power, and to unplug power terminal block before making wire connections.
2. Insert the positive and negative wires into the V+ and V- contact on the terminal block connector. Tighten the wire-clamp screws to prevent DC wires from being loosened. The range of the suitable electric wire is from 12 to 24 AWG.
3. The typical and suggest power source is DC 24V, the acceptable range is range from 9–48V. Please note that while you connect 48VDC, make sure the inrush voltage shall be under

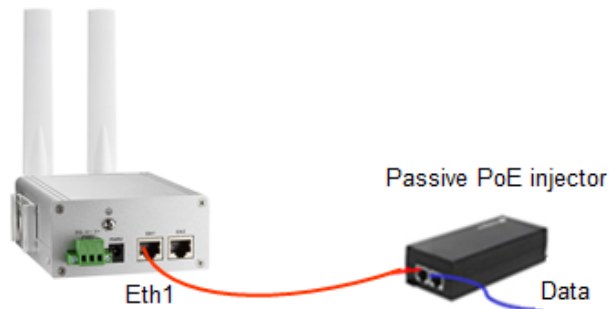


10% tolerance (52.8V).

4. The dual DC power can be redundant. You can connect one power to typical power source and the other to battery/UPS as backup.
5. If you connect the wrong positive/negative wires, the system would not be power on or cause unexpected error. Please avoid this in field installation.

● **Passive PoE**

1. The PoE wiring support Mode B (PoE wiring by 4, 5, 7, 8)
2. Connect the Ethernet cable to the Eth1 Port with 9~48V passive PoE injector. The JetPort 5801 V3 support passive PoE Input, **DO NOT accept force mode from PSE switch.**
3. While selecting power source by passive PoE, connect another end of the Ethernet cable to the passive PoE injector. Then the JetPort device can be powered and user can access its management interface through the cable. The figure below is an example of connect to the passive PoE injector.



Note: Please refer to chapter 6.4 for the PoE wiring.

● **Connect both DC inputs and Passive PoE**

1. If the 3 power inputs are all connected (PWR 1, PWR 2 and Passive PoE), the system will be powered from the highest connected voltage, and other power inputs are the redundant power sources.
2. If plug more than one power inputs at the same time, system will evenly powered through the power inputs when the different power sources are under the same voltage.
3. The 3 power sources are redundant power design. For example, if you connect both the DC PWR1 and passive PoE port, while you power on the DC power 1 as the 1st power source, in this condition, while the DC power source failure, the other power source can seamlessly redundant.

2.8 I/O Configuration

- **Wiring your Ethernet Port**

There are two Fast Ethernet ports. The 2 ports are standard RJ-45 form factor. They can support 10Base-TX and 100Base-TX. All the Ethernet ports will auto-detect the signal from connected devices to negotiate the link speed and duplex mode. Auto MDI/MDIX allows users to connect another switch, hub or workstation without changing straight through or crossover cables. In some cases, the MDI/MDI-X may requests the connected device support auto-negotiation.

Available Cable Type:

10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable (100m)

100 Base-TX: 2/4-pair UTP/STP Cat. 5 cable (100m)

1000 Base-T: 4-pair UTP/STP Cat. 5 cable (100m)

Cable Request in Harsh environment: CAT 5E/CAT 6 is preferred for Data transmission.

Wiring STP Cable: STP (Shielded Twisted Pair) cable is preferred. The device is a heavy Industrial EMC certificated product and usually install in harsh environment, part of the EMS protection are based on STP cable, for example the surge protection of front Ethernet ports. STP cable can provide better field protection. It is MUST for the device installation in harsh environment.

- **Reset**

There is one reset button located on the top of the device. 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 unit 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.

- **Serial**

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	-	-	-

- **Ground/ E.G.**

To ensure the system will not be damaged by noise or any electrical shock, you must make exact connection with the earth ground. There are two grounding ways: **Ground** and **E.G.**. You can choose one of the grounding ways. The “Ground” and the “E.G”.



are connected and the locations are on the bottom side of the device, loosen the ground screw then tighten the screw after earth ground wire is connected.

2.9 Antenna

The JetPort 5801 V3 equips two antenna sockets for Wireless 2T2R MIMO. The product attaches the Wi-Fi antennas inside the package.

- **Wi-Fi Antenna Specification**

Below figure is the specification of the attached Wi-Fi antenna.

The antenna is wide-temperature design, however, if you want to install it in outdoor area, please

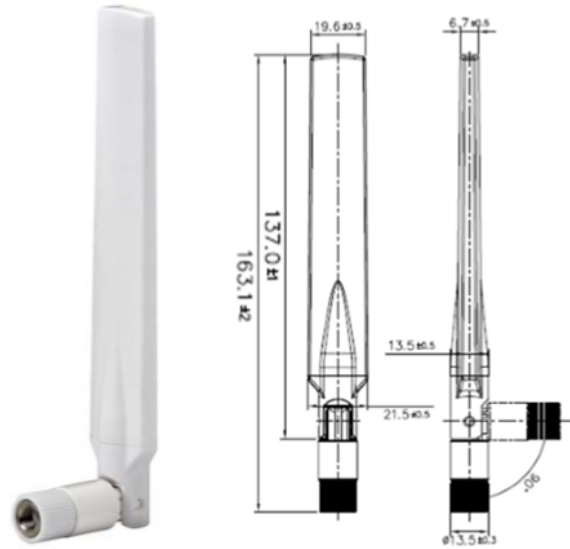
select water-proof outdoor antenna.

Specifications

Frequency (MHz)	2400-2500
Peak gain(dBi)	4
VSWR	2.0 : 1 Max.
Polarization	Linear, vertical
Impedance	50 Ω
Connector	RP SMA PLUG

Environment & Mechanical Characteristics

Temperature	-40°C to +85°C
Humidity	95% @ 25°C



● **MIMO & Dual Polarization**

➤ **What is MIMO:**

With the rising data rates and signal congestion, the MIMO is the proposed radio technology in IEEE 802.11n and accepted popularly. MIMO is short of the Multiple-Input and Multiple-Output, is the use of multiple antennas at both the transmitter and receiver to increase the wireless communication bandwidth, for example the 2T2R means 2 Transmitter and 2 receiver, then the bandwidth is double than SISO. MIMO technology offers significant increases in data throughput without additional bandwidth or increased transmit radio power.

The below figure shows the SISO technology, each transmitter and receiver has single radio.



The below figure shows the MIMO technology, the transmitter and receiver spread the total transmit power to 2 (or more) different radio antenna for communication.

MIMO

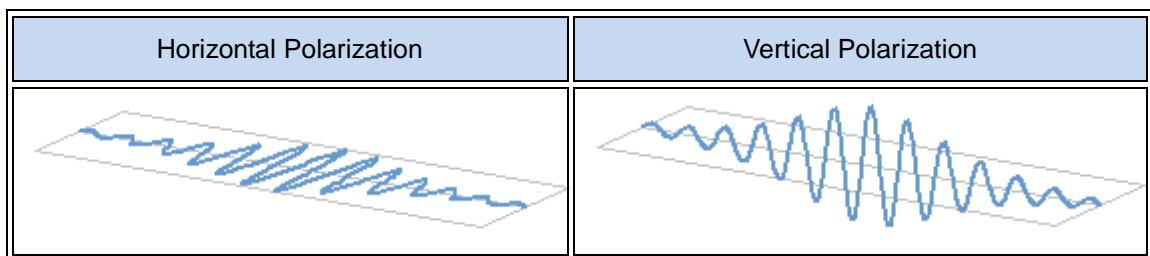


➤ What is Polarization:

Polarization is a property of wireless antenna, the polarization determines the antennas that can pick up the signal, for example you can set up two antennas in close and pointing to the same direction, but with different polarization. The result is only antennas with the same polarization will be able to communicate with each other, this is important especially in point-to-point wireless communication.

There are two major polarizations, Vertical and Horizontal. The antenna may support either one, you can choose Vertical or Horizontal polarization for the antenna installation. The result would be that antenna which is vertically polarized would only receive the signal from the vertically transmitting antenna, horizontally polarized antenna would only receive horizontally transmitting antenna.

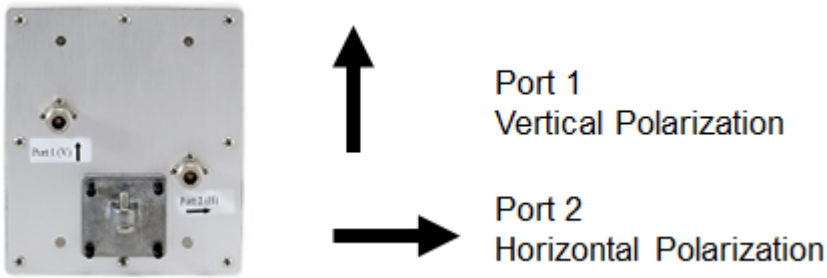
The below figures show the typical Horizontal / Vertical polarization:



Dual Polarization:

There is also “Dual Polarization” antenna which provides two ports to plug in, one for the vertical and the other for the horizontal polarization. The dual polarization antenna can communicate with antennas of both types of polarities at the same time from one antenna.

The below figure is the example of Dual Polarization connectors. There are 2 ports, one is for Vertical polarization, and the other is for Horizontal polarization. While installing the antenna, the 2 ports' direction of the 2 end must be the same.

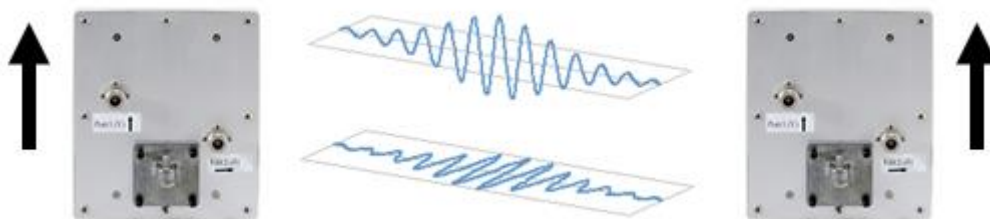


MIMO & Polarization:

To reach the 2T2R MIMO high performance, the antenna with dual polarization (also known as DP) which supports both vertical and horizontal polarization is necessary. While you select the external antenna, check the polarization specification of its datasheet or check with the supplier.

Normally, there are 2 connectors of the dual polarization antenna, this is also a way to identify whether this is dual polarization or not. Connect the 2 end of the antenna to the antenna socket of the Access Point.

The below figure shows the dual polarization transmitting between the 2 MIMO antennas:



2.10 Antenna Installation

The direction to lock the antenna is clockwise direction. The antenna sockets are on-board design, it can provide better protection avoid the antenna contact lost in vibration environment.

Note that the counter-clockwise direction will loosen the antenna immediately.

For vibration environment, it is still suggested you install the antenna at non-vibration or low vibration place and connect it by extended Radio cable antenna to the device. In another practical case, we usually mount the device within the field box to protect water, rain or other reasons, and mount its antennas outside the box. This is because the radio signal **MUST** be filtered by the metal field box if you install the AP within the box.

Korenix provides the external antenna and extended radio cable as optional accessory.

While you need it, you can purchase from Korenix.

2.11 LED Indicator

The following table indicates the LED of your device.

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.
Radio	Green	Blinking: Wi-Fi is connected
	Off	Wi-Fi is not connected
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.



2.12 Mounting

- **Mounting the device**

The JetPort 5801 supports Din-Rail mounting. The Din-Rail mounting kit is Din 35 compliant and pre-installed in the back of the AP. We also provide external wall mount bracket as optional accessory.

Optional Accessory:

- MTK-W-78: Wall Mount Bracket, 78mm(W) x 28mm(H) x 1.6mm(D)
- RG316 RF Cable: RP-SMA Male to RP-SMA Female, 1M (Indoor use)

MTK-W-78	RG316 RF Cable
	

Note: Consult our sales while you need water-proof outdoor RF cable.

2.7.1 Mounting the SMA-Type external antenna

If the default antenna is not suitable for your environment, you can purchase the external antenna per your environment need. While selecting the SMA-type external antenna, you must notice that the antenna should support the correct band in your country for radio transmission. You can choose SMA-type antenna and follow the same steps as “Mounting the default antenna on unit” to install your antenna.

2.7.2 Mounting the N-Type external antenna

If the default antenna is not suitable for your environment, for example the outdoor area, you can purchase the N-Type antenna. While selecting the N-type external antenna, you must notice that the frequency band of antenna must comfort to the radio band you connected. The Wi-Fi antenna usually uses different frequency band, 2.4G or 5G antenna also can't be shared. You must correctly select the antenna first.

While mounting the N-Type external antenna, you must need one SMA to N-Type connector or RF cable. Beware that the antenna sockets on board is **RP-SMA Female**. That means the end of the extended RF cable to our system should be RP-SMA Male.

2.13 Using the External Antenna

Consult your system integrator or our technical support engineer to choose the suitable external antenna with SMA-type or N-Type connector for your application. Different antenna supports different bands, polarization and different range of coverage.

Select the External Antenna

Gain: It affects the system performance.

Direction: Typical type includes Omni-Directional, Directional or Yagi antenna. Check the antenna zone in its specification.

Polarization: Dual Polarization is MUST for this 2T2R MIMO product.

Connector: Check what type it is, for example N-Type, SMA Male/Female.

Lightning Arrestor

While you install the external antenna in outside area, the Arrestor is a must accessory to avoid the environment attack through the antenna. The arrestor protects the insulation and conductors of the system from the damaging effects of lightning. For example the JWA-Arrestor-5803 is 0-6G Arrestor for N-Type Antenna.



Note:

While installing the device within metal field box, connect the extended antenna cable to outside the box is must to avoid the Radio lost.



Chapter 3

Prepare for Management

Chapter 3 Prepare to Management

JetPort serial device server provides powerful Windows management tool - JetPort Commander for multiple device management. Below are the major functions in JetPort Commander. This chapter introduces you the Software Quick Setup. You can know how to install the JetPort Commander and setup the Real COM mode.

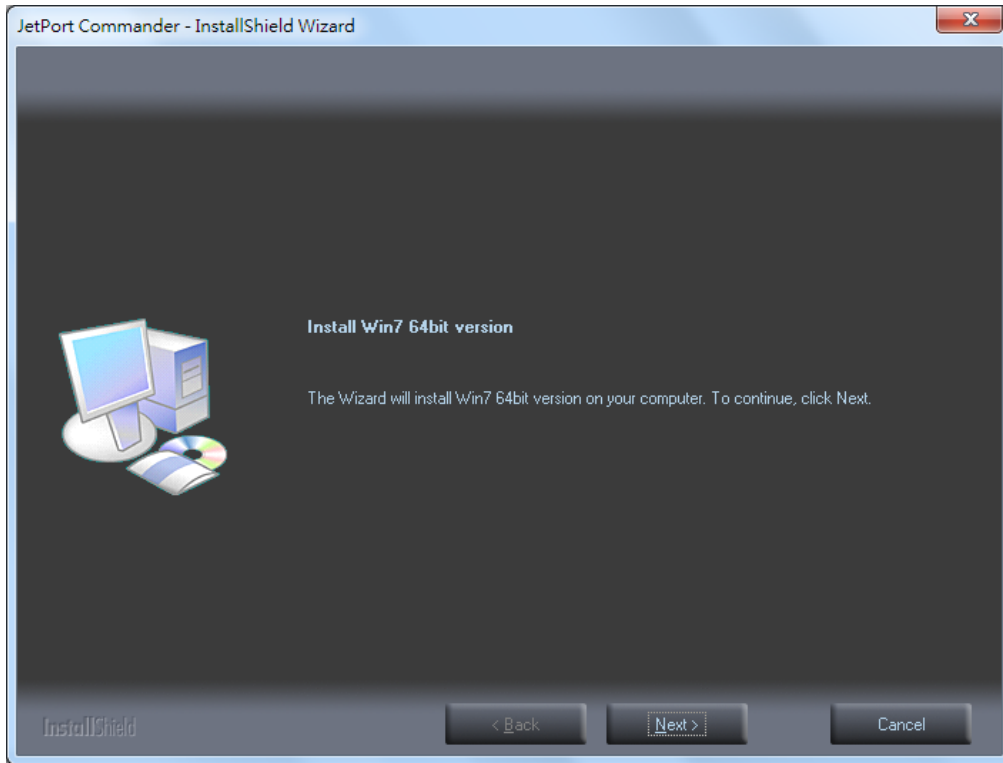
The “JetPort Commander Manual” introduces the full configuration of JetPort commander. You can download from Korenix web site. www.korenix.com

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

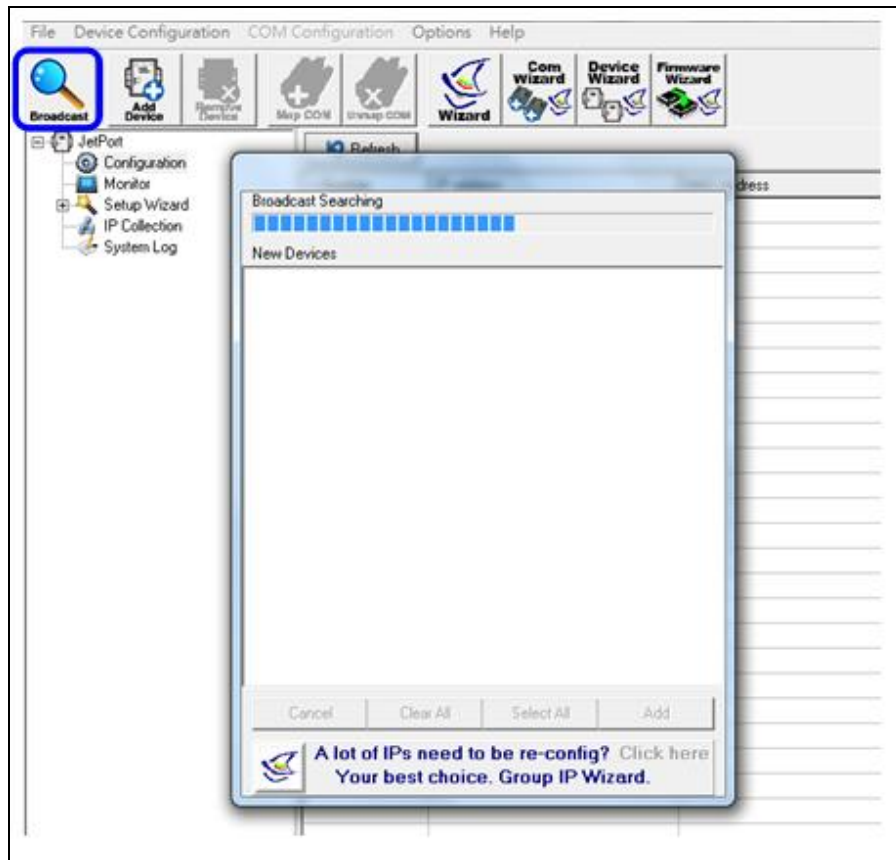
3.1 Software Quick Setup

Install JetPort Commander

1. Download JetPort Commander program on the Korenix website.
Korenix website ► Download ► JetPort –Serial Server ► JetPort Commander
Download link: <http://www.korenix.com/page/doc/index.aspx?kind=228>
2. Execute JetPort Commander 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.



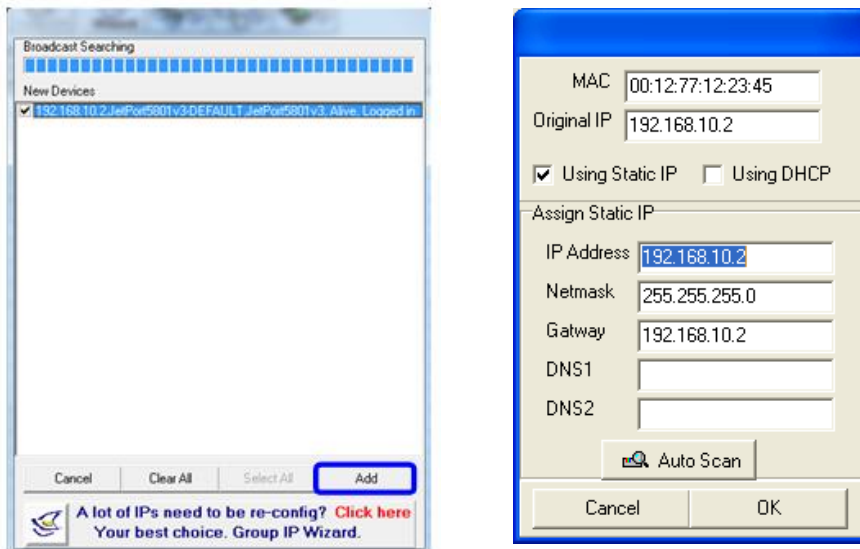
3. **Broadcast the JetPort unit:** JetPort Commander will broadcast the network and search all available JetPort units in the network. The default IP address of JetPort is "192.168.10.2".



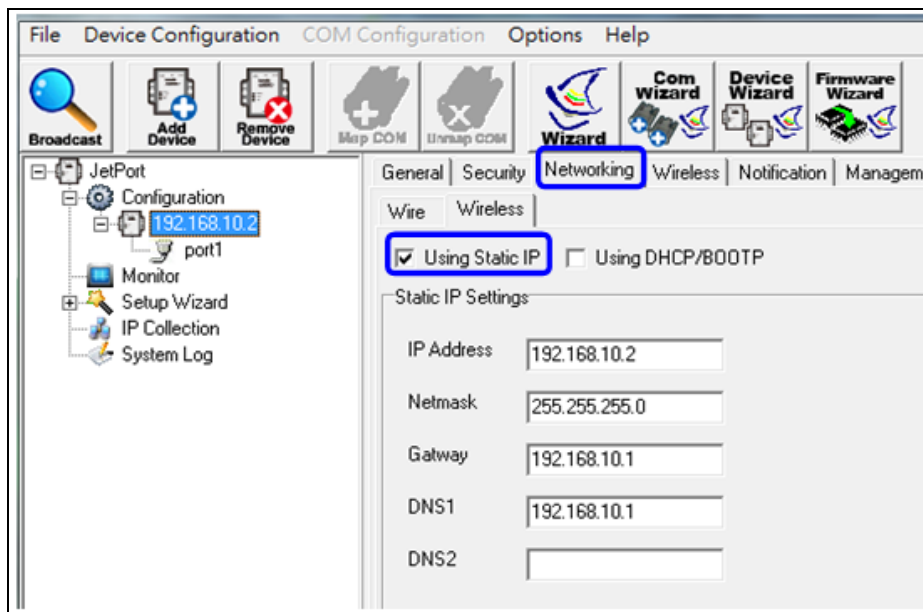
Note: If you have multiple Network Adapters (i.e. wireless and wired), please activate **ONLY ONE** Network Adapter that can locate the JetPort devices, and **CLOSE** the rest Network Adapters. Otherwise, JetPort Commander may broadcast **INCORRECTLY**.

4. Configuring the JetPort unit:

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

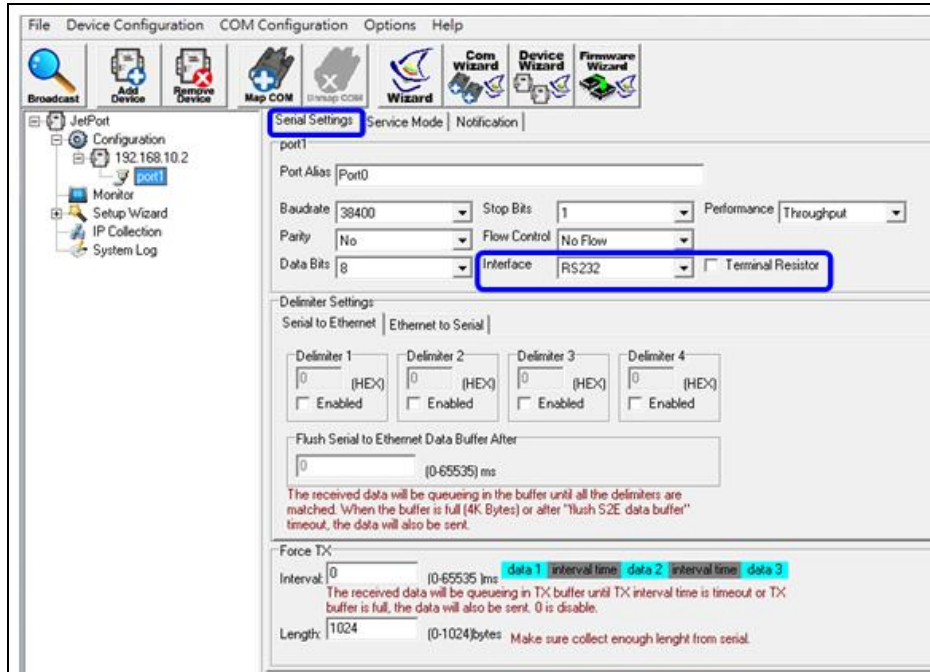


4.2 Go to “Configuration”, and choose the device. Select “Networking” to the network settings page. Select “Using Static IP” if you want to specify the network parameters, or select “DHCP/BooTP” if you want dynamic configuration for the JetPort unit.

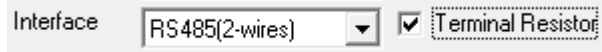


5. Configuring the serial port as COM port:

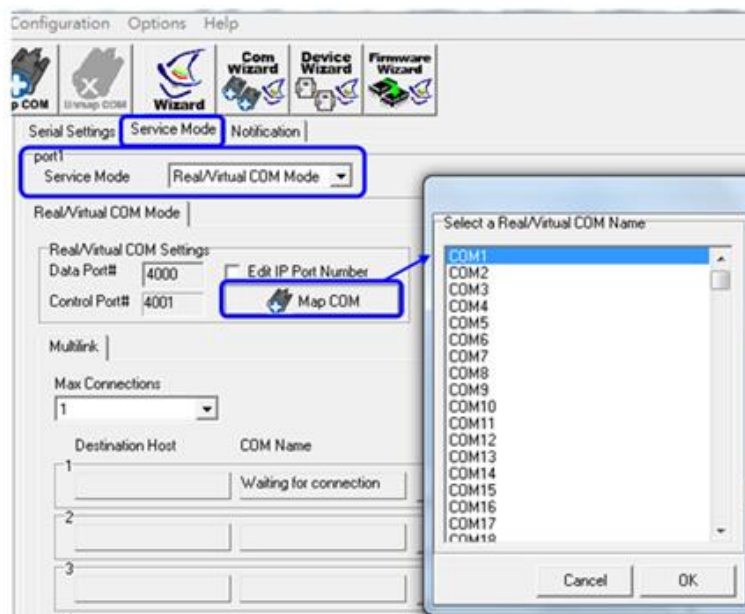
5.1 Go to “Configuration”, and choose the device and the “port”. Select “Serial Settings” to configure the serial settings.



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



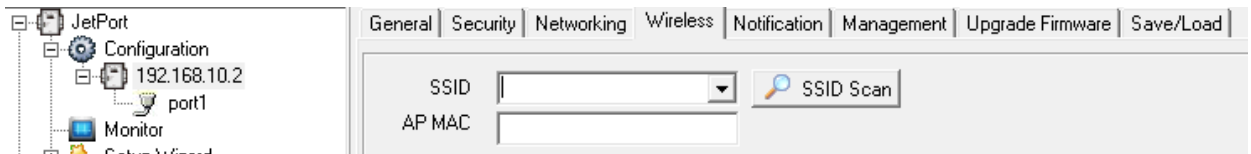
5.2 Select “Service mode”, “Real/Virtual COM Mode” and press “Map COM” to map the port to the COM port.



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

6. Configuring the Wireless:

- 6.1 Select the target unit's IP address. Go to "Wireless" page.
- 6.2 Press "SSID Scan" and select the available SSID.
- 6.3 If you can't find the SSID, manually configure the SSID in the SSID field.
- 6.4 Fill in the "AP MAC" if you want to bind the connected AP with both its SSID and MAC. Keep the "AP MAC" field blank if you don't want to bind the AP's MAC address



7. Configure the WLAN IP Address:

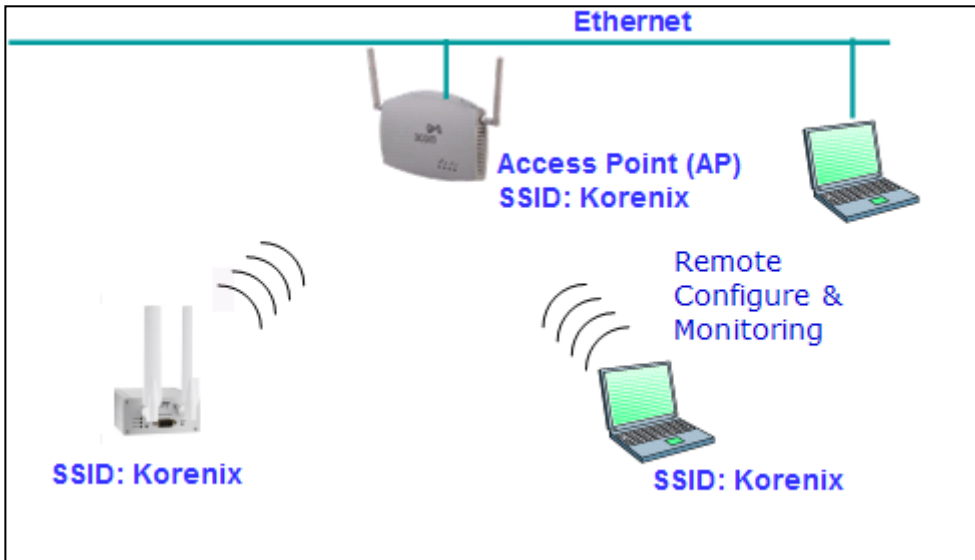
- 7.1 Go to "Networking" -> "Wireless"
- 7.2 Select "Static IP" if you want to specify the network parameters, or select "DHCP" if you want dynamic IP configuration for the JetPort unit.

8. Unplug the LAN interface or power reboot the JetPort 5801 to activate the WLAN connection. Run step 3 to find the JetPort 5801 through the WLAN connection.

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.

3.2 Wireless Architecture

The figure below shows the typical wireless architecture on JetPort 5801 V3.



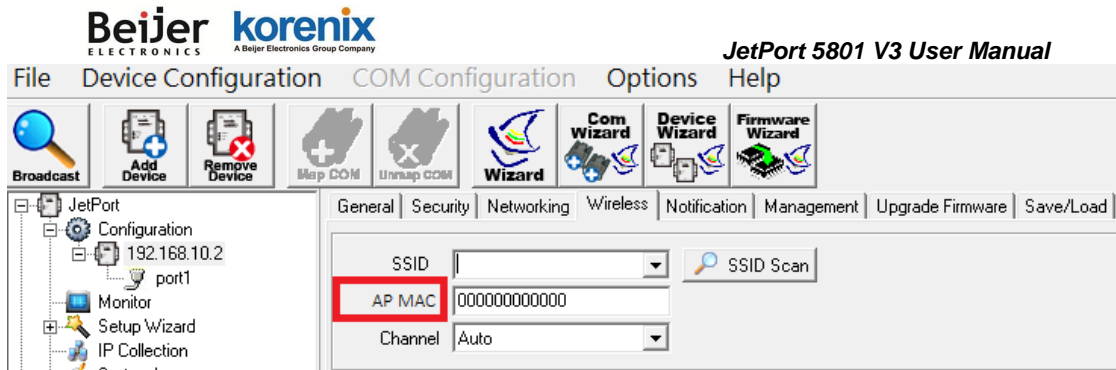
The 2 ends communicate via Access Point (AP). AP is the base station which allows WLAN clients connect to. Each AP accept several WLAN clients connect to at the same time, but the clients would share the bandwidth that the AP supports, in practical application, the WLAN client amount is depend on the network performance you plan to give. Usually up to 10-20 clients.

To build the wireless connection from the JetPort device to a AP, you need to scan the SSID in your environment and select the target SSID of the AP's that you want to connect to, and then you can choose to fill the AP's MAC address or not:

Without fill AP MAC: The default value is "000000000000", it means there is no MAC address bind with the target SSID. The JetPort device will connect to the AP as long as the SSID from both are matched.

Fill AP MAC: JetPort device will connect to the AP when it meets two conditions:

- (1) The JetPort device configures the same SSID of AP's
- (2) The filled "AP MAC" is the same of target AP's.



SSID:

SSID is short of the Service Set Identifier, it is referred to as a network name that identifies a wireless network. The SSID is attached to the header of packets sent over the WLAN. The 2 ends of the communication pairs should have the same SSID. This also can be viewed as one kind of password for the WLAN end devices. To configure the WLAN settings, In infrastructure mode, you should know the SSID of the access point and configure this in the JetPort.

Configure the SSID of the Access Point (AP) by JetPort Commander when you first use the WLAN interface or when you move to JetPort 5801 to the range of the other AP. Unplug the LAN port or power reboot the device, then the WLAN interface can connect to the Access Point (AP) you assigned. It may take few seconds to connect to the WLAN AP when you unplugging the LAN interface. Refer to the Radio LED can help you to see the WLAN connection status.

Channel:

In each region, it defines the channels of the wireless band. When choosing Infrastructure mode, the channel of the JetPort is automatically decided by the Access Point. This is to avoid the conflict and easy maintaining the WLAN performance.

Transmission Rate:

The JetPort 5801 supports 802.11b/g/n standard. The typical transmission rate of the 802.11n is 300Mbps. The transmission rate of JetPort is "Auto". It'd use the best transmission rate it can meet in that environment. The transmission rate may also decide by the Access Point. The network installation may also affect this, weak signal or poor connection will reduce the rate.

3.3 System Requirements

Before configuration, please make sure your system meets the following requirements:

A computer coupled with 10/100/1000 Base-T(X) adapter; Configure the computer with a static IP address of 192.168.10.x (x cannot be 0, 2, nor 255), as the default IP address of JetPort 5801 is 192.168.10.2.

A Web browser on PC for configuration such as Microsoft Internet Explorer 6.0 or above, Google Chrome or Mozilla Firefox.

Note: If you want to do throughput test, not just configure the switch, please notice that the throughput of the high performance and low performance CPU must be different.

3.4 Fail to login the Web GUI

If you failed to login the web GUI, there are something you can do for troubleshooting.

1. Korenix web management page is developed by JAVA. It allows you to use a standard web-browser such as Microsoft Internet Explorer, or Mozilla, to configure and interrogate the switch from anywhere on the network. The IE 5.0 or later versions do not allow Java applets to open sockets by default. Users have to directly modify the browser settings to selectively enable Java applets to use network ports.
2. Please disable the firewall setting of your browser. The firewall setting may block the connection from your PC to the device. Note that after finished the setting, re-enable your firewall to protect your PC.
3. Check the IP Setting, your PC and managed device must be located within the same subnet.
4. Check whether the connected ports are connected well. Or if the ports are assigned to different IP addresses.
5. The Web UI connection session of the device will be logged out automatically if you don't give any input after 30 seconds. After logged out, you should re-login and key in correct user name and password again.
6. The new JAVA version may have different security policy in different versions, please contact Korenix engineer (Korecare@korenix.com) once you have problem for login.



Chapter 4

Web GUI Configuration

Chapter 4 Web GUI Configuration

This chapter describes the Web GUI for JetPort Software Configuration.

4.1 How to Login the Web-based interface

The system provides you with user-friendly Web-based management tool. Open IE, Firefox or Chrome browser and enter the IP address (Default <https://192.168.10.2>) into the address field. (Note: “http://” is not allowed in HTTPS. You should type “https://”)

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.

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

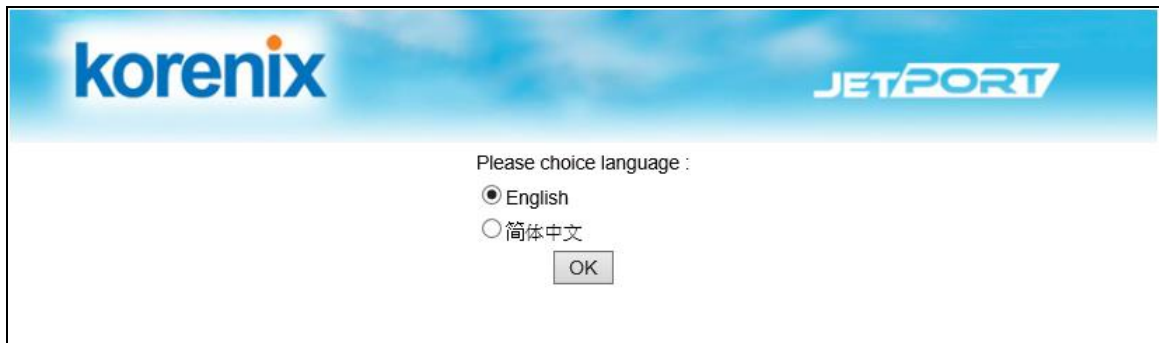


Figure – Language Selection



Figure – Web GUI index

4.2 Server Configuration

- **System Information**

The “System Information” page shows the JetPort 5801 basic information, it includes Model Name, IP Address, MAC Address and Firmware Version.

- **SNTP Configuration**

SNTP Configuration Page configures Server name, Time Server, and Telnet console enable/disable. There is an internal hardware RTC design, when you set done the current time, the time rule will keep the same as you set even if the device has been re-powered.

Basic Setting	
Name	JetPort5801v3-DEFAULT
Time	
SNTP	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Time Zone	(GMT+08:00)Taipei
Local Time	Wed Dec 04 2013 19:33:56 GMT+08:00
Time Server	pool.ntp.org Port 123
Console	
Telnet Console	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
Submit	

- **IP Configuration**

IP Configuration Page configures the IP address, netmask, gateway, and DNS server for the JetPort.

Auto IP Report: This is for dynamic IP address reporting in defined intervals.

Ethernet Mode: Select “Redundant” or “Switch” mode. The function is known as RTTD (Redundant to the Device). When choose “Redundant” mode and the dual Ethernet ports are connected, only one path will be activated (Primary path), and another un-activated one will be the Backup path. When the Primary path is down, the backup path will recover connection in less than 200ms.

● **Wireless Configuration**

Wireless Configuration allow you to configure the SSID, AP MAC and Wireless Encryption for the Wireless LAN settings.

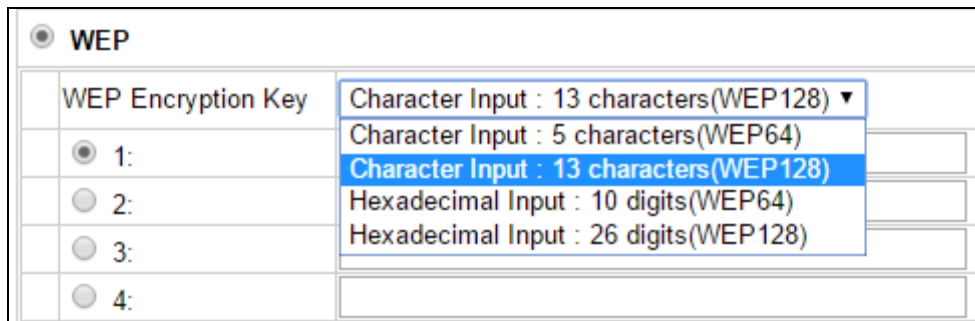
SSID Scan: Scan the available APs in the network. Or manually configure the SSID in the **SSID** field.

AP MAC: Default value is “000000000000”, it means there is no MAC address bind with the target AP that you selected/filled. The JetPort device will connect to the AP as long as the SSID from AP and JetPort unit are matched. If you fill the target AP’s MAC address in the “AP MAC” field, JetPort unit will connect to the AP when it meets two conditions: (1) The JetPort device configures the same SSID of AP’s (2) The filled ”AP MAC” is the same of target AP’s.

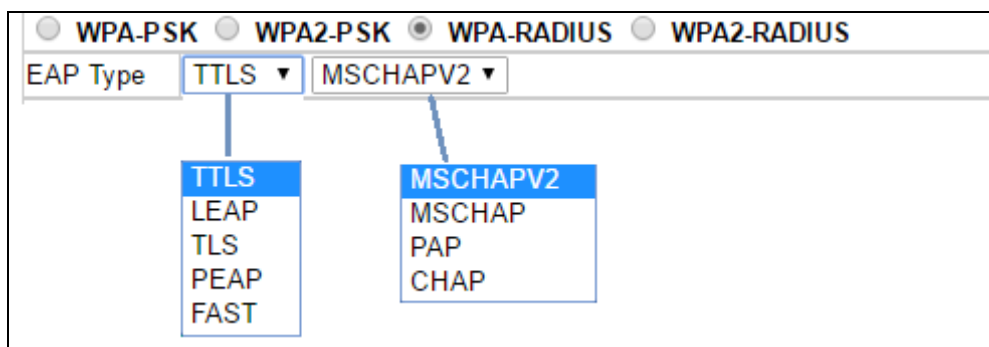


Wireless Encryption settings include WEP, WPA-PSK, WPA2-PSK, WPA-RADIUS and WPA2-RADIUS. Type the same settings as your AP's setting otherwise you can use the Wireless LAN network.

WEP Encryption Key type:



WPA-RADIUS EAP Type:



- **User Authentication**

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



4.3 Port Configuration

- **Serial 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”.

● **Port Profile**

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

Port1	
Local TCP Port	4000
Command Port	4001
Mode	Serial to Ethernet
Flush Data Buffer After	0 ms
Delimiter(Hex 0~ff)	1:00 2:00 3:00 4:00
Mode	Ethernet to Serial
Flush Data Buffer After	0 ms
Delimiter(Hex 0~ff)	1:00 2:00 3:00 4:00

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**

In Service Mode Page, 4 Service Mode is available for different serial application..

Port1	
Service Mode	Virtual/Real COM Mode
Idle Timeout	0 (0~65535)seconds
Alive Check	0 (0~65535)seconds
Max Connection	1 max. connection (1~5)

➤ **Virtual/Real COM Mode**

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

	Port1	
Service Mode	Virtual/Real COM Mode ▼	
Idle Timeout	0	(0~65535)seconds
Alive Check	0	(0~65535)seconds
Max Connection	1 ▼	max. connection (1~5)
<input type="button" value="Submit"/>		

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).

➤ **TCP Server**

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

	Port1	
Service Mode	TCP Server Mode ▼	
TCP Server Port	4000	
Idle Timeout	0	(0~65535)seconds
Alive Check	0	(0~65535)seconds
Max Connection	1 ▼	max. connection(1~5)
<input type="button" value="Submit"/>		

➤ **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.

Port1	
Service Mode	TCP Client Mode ▾
Destination Host	0.0.0.0 : 4000
Idle Timeout	0 (0~65535)seconds
Alive Check	0 (0~65535)seconds
Connect on	<input checked="" type="radio"/> Startup <input type="radio"/> Any Character
Destination Host	Port
1. 0.0.0.0	65535
2. 0.0.0.0	65535
3. 0.0.0.0	65535
4. 0.0.0.0	65535
<input type="button" value="Submit"/>	

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.

➤ **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.

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
<input type="button" value="Submit"/>		

4.4 Management

The Management Configuration allow you to set the management settings, it include Access IP Control List, SMTP/SNMP Conf. and System Event Conf.



- **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.

Server Configuration

Port Configuration

Management

Access IP Control List

SMTP/SNMP Conf.

System Event Conf.

Maintenance

Welcome to JetPort Web Commander

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 Server

SNMP Server 1

SNMP Server 2

SNMP Server 3

SNMP Server 4

Community

Location

Contact

Syslog Server

Syslog Server IP

Syslog Server Port

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.

- **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.

Welcome to JetPort Web Commander

Event Notification

Device Notification

Hardware Reset (Cold Start)	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Software Reset (Warm Start)	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Login Failed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
IP Address Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Password changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Access IP Blocked	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Redundant Power Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Redundant Ethernet Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog

Port Notification

DCD Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
DSR Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
RI Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
CTS Changed	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Port Connected	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> Syslog
Port Disconnected	<input type="checkbox"/> Mail	<input type="checkbox"/> Trap	<input type="checkbox"/> 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 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 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.

4.5 Maintenance

Use this page for JetPort maintenance, it includes [Load Factory Default](#), [Import Certification](#), [Import Configuration](#), [Export Configuration](#) and [Upgrade Firmware](#).



Load Factory Default: Load default configuration except Network Settings.

Import Certification: Import the certification key for WPA/WPA2 Radius.

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.



Chapter 5

SSH Console

Chapter 5 SSH Console

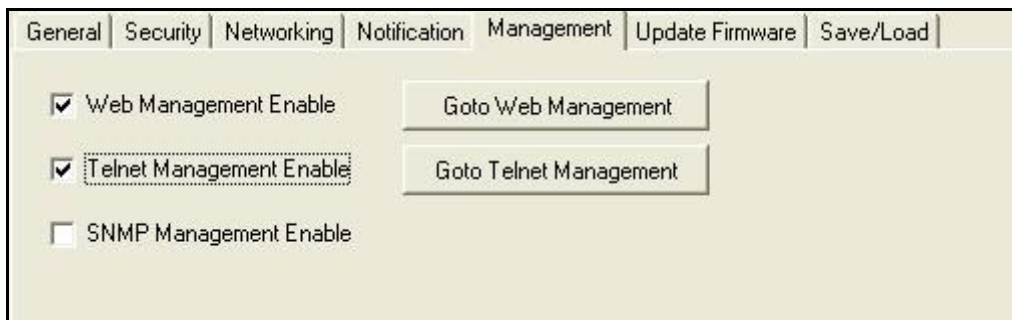
For using SSH, you should open the SSH Client, assign the IP of the JetPort you'd like to access and enter the correct Username/Password, then you can enter the SSH console menu.

SSH Client

- There are many free, shareware, trial or charged SSH clients you can find in the internet. For 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 1997-2016 Simon Tatham.*

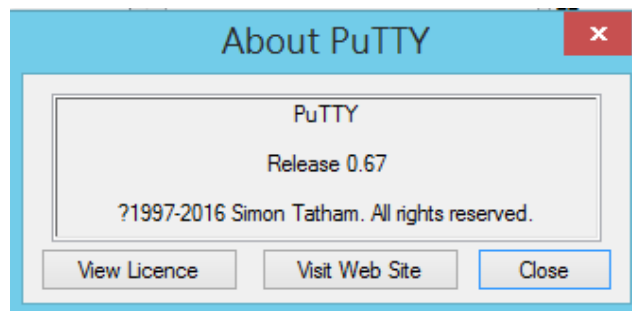
Download PuTTY: <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

- JetPort Settings: Enable the "Telnet Management Enable" to enable the SSH feature of JetPort 5801. 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:



Execute 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:

Login as: admin

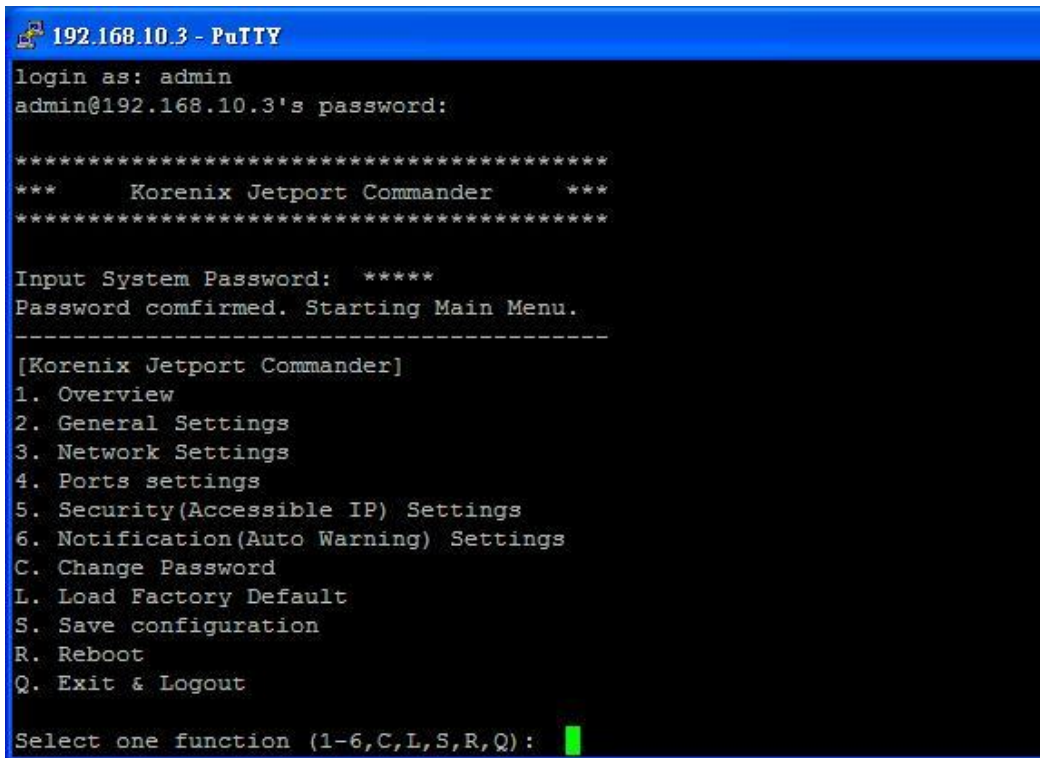
admin@192.168.10.3's password: (admin)

```
*****  
***      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.



Chapter 6

Appendix

Chapter 6 Appendix

6.1 ASCII

WEP can be configured with a 64-bit or 128-bit Shared Key (hexadecimal number or ACSII). As defined, hexadecimal number is represented by 0-9, A-F or a-f; ACSII is represented by 0-9, A-F, a-f or punctuation. Each one consists of two-digit hexadecimal.

ASCII Table

ASCII Character	Hex Equivalent	ASCII Character	Hex Equivalent	ASCII Character	Hex Equivalent	ASCII Character	Hex Equivalent
!	21	9	39	Q	51	i	69
"	22	:	3A	R	52	j	6A
#	23	;	3B	S	53	k	6B
\$	24	<	3C	T	54	l	6C
%	25	=	3D	U	55	m	6D
&	26	>	3E	V	56	n	6E
'	27	?	3F	W	57	o	6F
(	28	@	40	X	58	p	70
)	29	A	41	Y	59	q	71
*	2A	B	42	Z	5A	r	72
+	2B	C	43	[	5B	s	73
,	2C	D	44	\	5C	t	74
-	2D	E	45	]	5D	u	75
.	2E	F	46	^	5E	v	76
/	2F	G	47	_	5F	w	77
0	30	H	48	`	60	x	78
1	31	I	49	a	61	y	79
2	32	J	4A	b	62	z	7A
3	33	K	4B	c	63	{	7B
4	34	L	4C	d	64	|	7C
5	35	M	4D	e	65	}	7D
6	36	N	4E	f	66	~	7E
7	37	O	4F	g	67		
8	38	P	50	h	68		

6.2 SNMP MIBII and RS232 Like Support

Jetport 5801 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 5801.

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
ipForwDatagrams	ipInUnknownProtos	ipInDiscards	ipInDelivers
ipOutDiscards	ipOutNoRoutes	ipReasmTimeout.	ipReasmReqds
ipReasmFails	ipFragOKs	ipFragFails	ipFragCreates
ipAdEntIfIndex	ipAdEntNetMask	ipAdEntBcastAddr	ipRouteDest
ipRouteMetric1	ipRouteNextHop	ipRouteIfIndex	ipRouteMask
ipInAddrErrors	ipOutRequests	ipReasmOKs	ipAdEntAddr
ipRouteType	ipRouteProto	ipRouteInfo	ipNetToMediaIfIndex
ipNetToMediaPhysAddress	ipNetToMediaNetAddress	ipNetToMediaType	ipRoutingDiscards

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

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

UDP MIB				
udpInDatagrams	udpNoPorts	udpInErrors	udpOutDatagrams	udpLocalAddress
udpLocalPort				

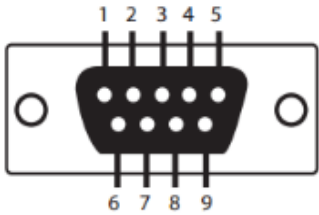
SNMP MIB			
snmpInPkts	snmpOutPkts	snmpInBadVersions	snmpInBadCommunityNames
snmpInASNParseErrs	snmpInTooBigs	snmpInNoSuchNames	snmpInBadValues
snmpInGenErrs	snmpInTotalReqVars	snmpInTotalSetVars	snmpInGetRequests
snmpInSetRequests	snmpInGetResponses	snmpInTraps	snmpOutTooBigs
snmpOutBadValues	snmpOutGenErrs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

snmpOutSetRequests	snmpProxyDrops		
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RFC1317 RS232 supported SNMP variables

RS232 MIB			
rs232Number	rs232PortIndex	rs232PortType	rs232PortInSigNumber
rs232PortInSpeed	rs232PortOutSpeed	rs232PortInFlowType	rs232PortOutFlowType
rs232AsyncPortIndex	rs232AsyncPortBits	rs232AsyncPortStopBits	rs232AsyncPortParity
rs232AsyncPortParityErrs	rs232AsyncPortFramingErrs	rs232AsyncPortOverrunErrs	rs232AsyncPortAutobaud
rs232InSigPortIndex	rs232InSigName	rs232InSigState	rs232InSigChanges
rs232OutSigPortIndex	rs232OutSigName	rs232OutSigState	rs232OutSigChanges
rs232PortOutSigNumber			

6.3 RS-232/ 422/ 485 PIN Assignment

 <p>DB9 Male</p>	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

Pin No.	RS422/ RS485(4-wire)	RS485(2-wire)
1	TX-	DATA-
2	TX+	DATA+
3	RX+	
4	RX-	
5	GND	GND
6		
7		
8		
9		

6.4 PoE Wiring

The JetPort device support passive PoE through Eth1 port, the power input range is 9~48V. The Eth1 port support alternative-B type powering method, and forward power through the RJ-45 conductors 4, 5, 7 and 8. The RJ-45 plug's conductor pin assignment shows as following table for your reference.

Pin No.	10/100Mbps Alternative B (8 wires)	Wire
1	Rx +	Data
2	Rx -	Data
3	Tx +	Data
4	DC+	Power
5	DC+	Power
6	Tx -	Data
7	DC -	Power
8	DC -	Power

Revision History

Version	Description	Date	Editor
V1.0	1 st release for JetPort 5801 V3	Oct. 2016	Queena Guan