QUICK START GUIDE

SWT-F0803MG Series

Environmentally Hardened Managed Ethernet Switch
3 SFP + 8 Electrical Ports with 60 Watt PoE

This guide serves the following Model Names:

SWT-F0803MGHP240

The SWT-F11MGHP is composed of the SWT-F0803MGHP240 Switch and PWR-DR48480 Power Supply.

The SWT-F0803MG series has three 100/1000Base-FX SFP ports and eight 10/100Base-TX ports. Two of the SFP ports support 2.5 Gbps SFPs for high-speed communication in bandwidth-intensive applications. All SFP ports utilize SFP modules for fiber and connector type and distance. The IEEE802.3-compliant unit offers multiple Ethernet redundancy protocols (MSTP/RSTP/STP/ERPS (G.8032)) which protect your applications from network interruptions or temporary malfunctions by redirecting transmission within the network. The switch provides advanced IP-based management that can limit the maximum bandwidth for each connected IP device, allowing the user to adjust usage. The switch provides eight electrical ports supplying Power over Ethernet (PoE). Four of the eight PoE ports can support up to 60 watts of PoE power per port, while the other four ports support up to 30 watts of power per port. All PoE ports are IEEE802.3af/IEEE802.3at compliant.

Contents

Regulatory Compliance Statement

Product(s) associated with this publication complies/comply with all applicable regulations. Please refer to the Technical Specifications section for more details.

Warranty

Hanwha Techwin warrants that all products are free from defects in material and workmanship for a specified warranty period of 3 years from the invoice date. Hanwha Techwin will repair or replace products found by to be defective within this warranty period. Shipment expenses are to be covered by the customer. This warranty does not cover product modifications or repairs done by persons other than approved personnel, and this warranty does not apply to products that are misused, abused, improperly installed, or damaged by accidents.

Disclaimer

Information in this publication is intended to be accurate. shall not be responsible for its use or infringements on third-parties as a result of its use. There may occasionally be unintentional errors on this publication. reserves the right to revise the contents of this publication without notice.

Safety Information

» Only service personnel can service the equipment. Please contact Technical Support.

» The equipment should be installed in locations with controlled access, or other means of security, and controlled by persons of authority. When operating at temperatures above 51° C, the equipment surfaces will be hot to the touch. Installation in restricted access location is required for this case.

» For models requiring a power supply not labeled LPS, the unit should be installed in a restricted access location using a 60950-1, 2nd Edition + Am. 1 + Am. 2 Certified power supply rated for the ambient temperature in which it is installed. Total derated power rating should be greater than the sum of the attached loads plus 15 W for the switch.

» Use CDRH compliant SFP modules when using fiber connectivity with this device.

» When used in Australia or New Zealand, the product is certified for intra building applications only, and should not be directly connected to network cables with outside plant routing.

Hardware Installation

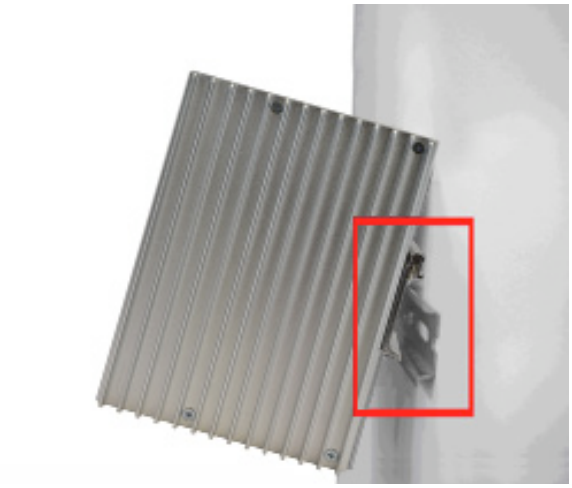
Installing the Switch on DIN-Rail

Each switch has a DIN-Rail kit on the rear panel. The DIN-Rail kit affixes the switch to the DIN-Rail.

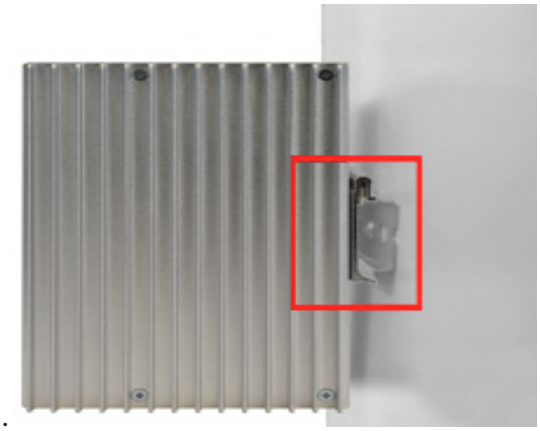
It is easy to install the switch on the Din-Rail:

Mount Series on DIN-Rail

Step 1: Tilt the switch and mount the metal spring to DIN-Rail.



Step 2: Push the switch toward the DIN-Rail until you hear the spring snap into place



Wall Mounting Installation

Each switch has another installation method for users to fix the switch. A wall mount panel can be found in the package. The following steps show how to mount the switch on the wall:

Mounting the switch on a wall

Note: For drywall applications where no studs are available, use drywall anchors rated for 50 lbs or more.
In order to prevent switches from being damaged, use appropriate hardware (not supplied) for securing the unit to the wall.
#6 screws with at least ½-inch penetration into wood surface recommended.

Step 1: Remove DIN-Rail kit if it is installed.

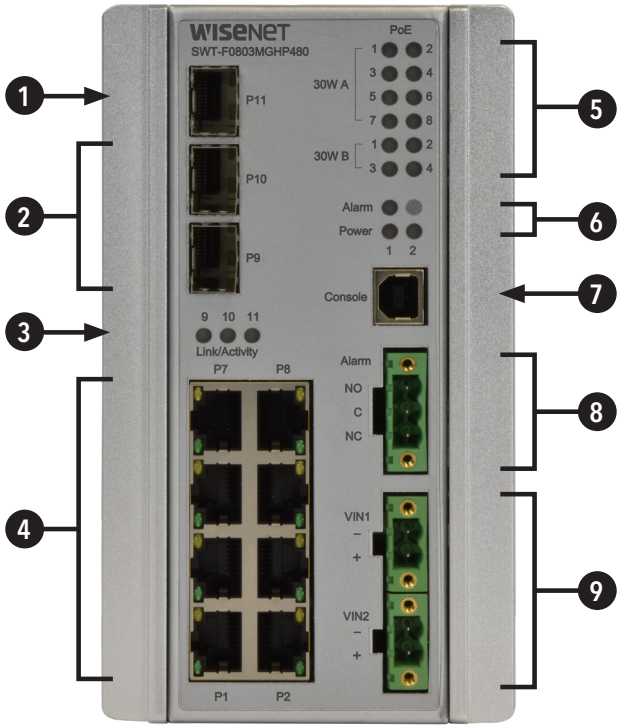
Step 2: Remove the two screws at the top of the unit's back panel. Remove only one pair of back panel screws at time (these hold the back panel in place on the unit).

Step 3: Use the same two screws plus one of the included screws to attach the wall mount panel to the top set of screw holes as shown in the diagram below.

Step 4: Repeat Steps 2 and 3 to mount the second wall mount panel on the bottom of the unit's back panel.

ATTENTION: Do not remove the top and bottom panel screws at the same time, or the back panel will detach from the unit. Install the wall mount panels one at a time.
When operating at temperatures above 51°C, the equipment surfaces will be hot to the touch. Installation in restricted access location is required for this case.

Hardware Overview



SWT-F0803MGHP240 Front Panel

Call-out	Description
1	1 × 100/1000Base-FX SFP Port
2	2 × 100/1000/2500Base-FX SFP Ports
3	Link/Activity LED Indicators for SFP Ports
4	8 × 10/100Base-TX RJ45 Ports
5	PoE LED Indicators
6	Alarm and Power LED Indicators
7	USB Console Port
8	Fault Relay 3-Pin Terminal Block Connector
9	Redundant Power 2-Pin Terminal Block Connectors

Power Supply

For SWT-F0803MGHP240 Model, Power Supply must be 44 to 57 VDC @ 250W max.

IMPORTANT SAFEGUARDS:

A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Front Panel LEDs

LED	Color	Status	Description
Alarm	Red	On	Alarm Fault Status has been triggered
Power 1 Alarm	Green	On	Power Input on VIN1 terminal block Input
	Red	On	Power lost to VIN1 terminal block
Power 2 Alarm	Green	On	Power Input on VIN1 terminal block Input
	Red	On	Power lost to VIN2 terminal block
PoE (Power over Ethernet)			
30W A	Green	On	MODE A PoE is being supplied on indicated RJ-45 port
30W B	Green	On	MODE B PoE is being supplied on indicated RJ-45 port
Gigabit Ethernet ports			
Link	Green	On	Port in Full Duplex mode
Activity	Amber	Blinking	Data transmitted
Gigabit SFP ports			
Link/Activity	Amber	Blinking	Data transmitted

SWT-F0803MGHP240 60 W PoE Model

Port 1 to 4 support both mode A and mode B PoE which is 60 W in total. When a greater than 30 W PoE supported device is connected to ports 1 to 4, both 30 W A and B Indicator LEDs will be turned on to indicate the high-power application device is connected.

Software Configuration

Attention: While installing and upgrading firmware, please remove physical loop connection first. DO NOT power off equipment while the firmware is upgrading!

Configuration by Web Browser

About Web-based Management

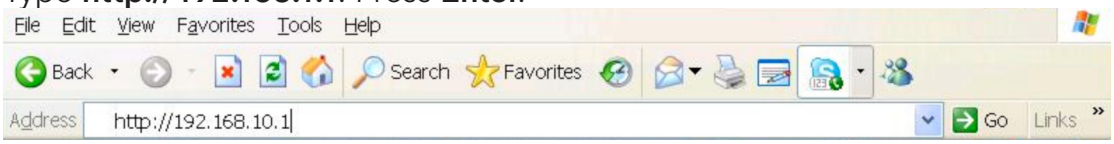
An embedded HTML web site resides in the flash memory on the CPU board. It contains advanced management features and allows you to manage the switch from anywhere on the network through a standard web browser such as Microsoft Internet Explorer.

Preparing for Web Management

The default value is as below:
IP Address: **192.168.1.1**
Subnet Mask: **255.255.255.0**
Default Gateway: **192.168.1.254**
User Name: **admin**
Password: ***Must be configured prior to login* Refer to p.11**

System Login

1. Launch web browser.
2. Type **http://192.168.1.1**. Press **Enter**.



3. The login screen appears.
4. Key in the username and password. The default username is **admin**. The password must have been previously configured, otherwise access will be denied. Refer to p.11 to set an inital password.
5. Select **Enter** or **OK** button, then the main interface of the Web-based management appears.

Warning – Any changes made to the settings will apply only to the current running configuration of the switch and will be lost in the event of a power cycle. To save any changes made to persistent memory please go to "Maintenance ¦ Configuration ¦ Save startup-config" to write the changes to the switches startup configuration.

Setting an Initial Password

Wisenet switches require a password to be set upon initial login using the CLI. Before you can sign in to the web GUI, a password must be set using the CLI. The CLI can be accessed using the USB port and terminal software or with an ethernet cable and telnet. If the password is lost, the unit must be restored to the factory default settings, following the procedure on page 315.

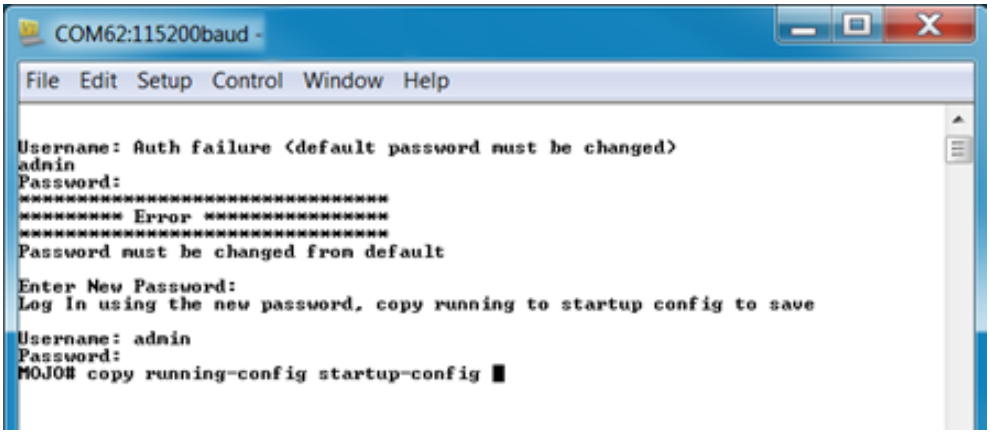
Connect to the switch using the USB port or by ethernet. The default IP address is **192.168.1.1**.

1. nter the username of "**admin**", with a password of "**admin**". ote that while the admin password is used, the web GUI will not allow login, and other configuration can not take place.

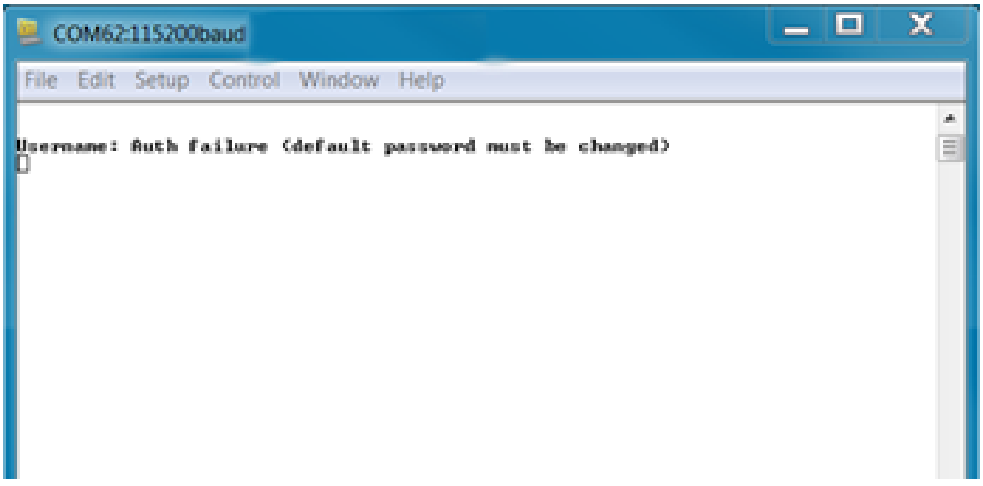
. At the "Enter New Password" prompt enter the new password for the system. The maximum password length is 32 characters. It is recommended to use a password that is hard for someone to guess, while being memorable. It is best practice to include upper & lowercase, numbers, & special characters. Passwords should not use repeated or sequential characters or common words and be at least 8 characters in length.

3. ou will be prompted to log in using the new password.

. Save the new password to the startup config using the command "copy running-config startup-config".



After changing the password, the webpage will accept the new credentials.
Note: Attempting to log in to the webserver using "**admin**" "**admin**" will display the following message on the console: "Auth failure (default password must be changed)".



Using Switch CLI

About CLI Management

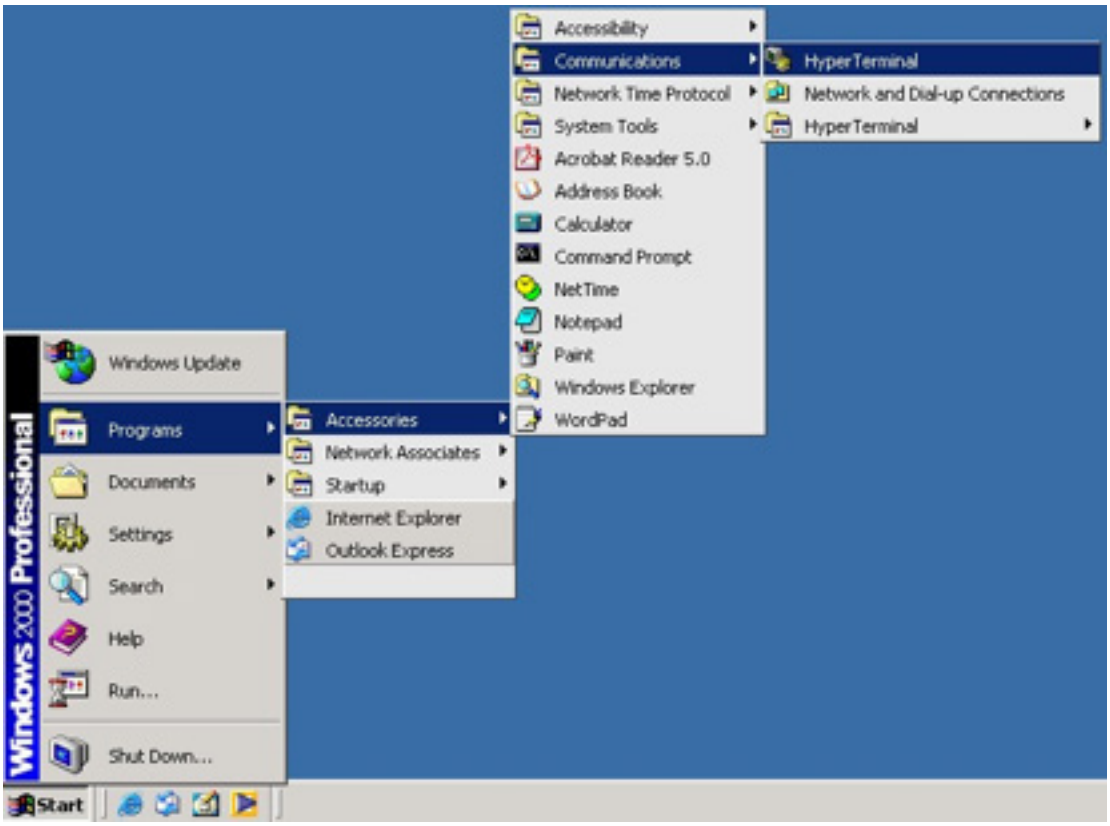
Besides Web-based management, the switch also supports CLI management. You can use console or telnet to manage switch by CLI.

CLI Management by Serial Console (115200, 8, none, 1, none)

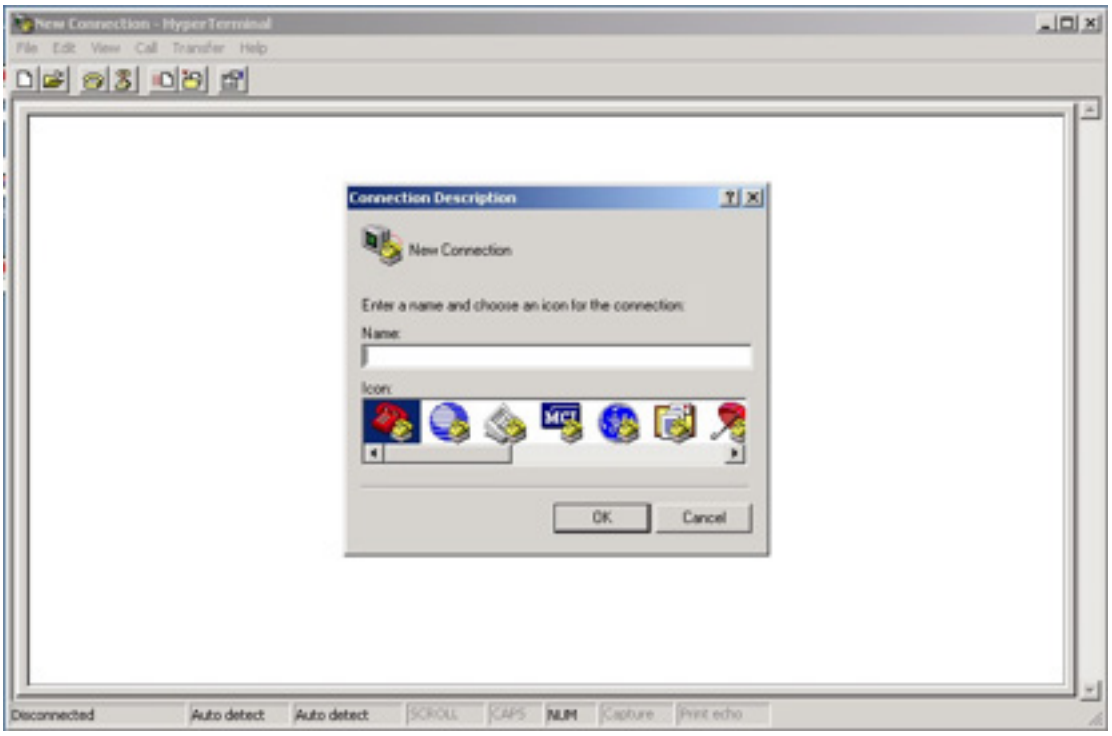
Before configuring the serial console, use a USB Male-A to USB Male-B cable to connect the Switches' USB Console port to your PC's USB port.

Follow the steps below to access the console via USB cable using Windows Hyper Terminal. Note that recent versions of Windows does not include Hyper Terminal, and a 3rd party replacement such as PuTTY can be downoaded and used.

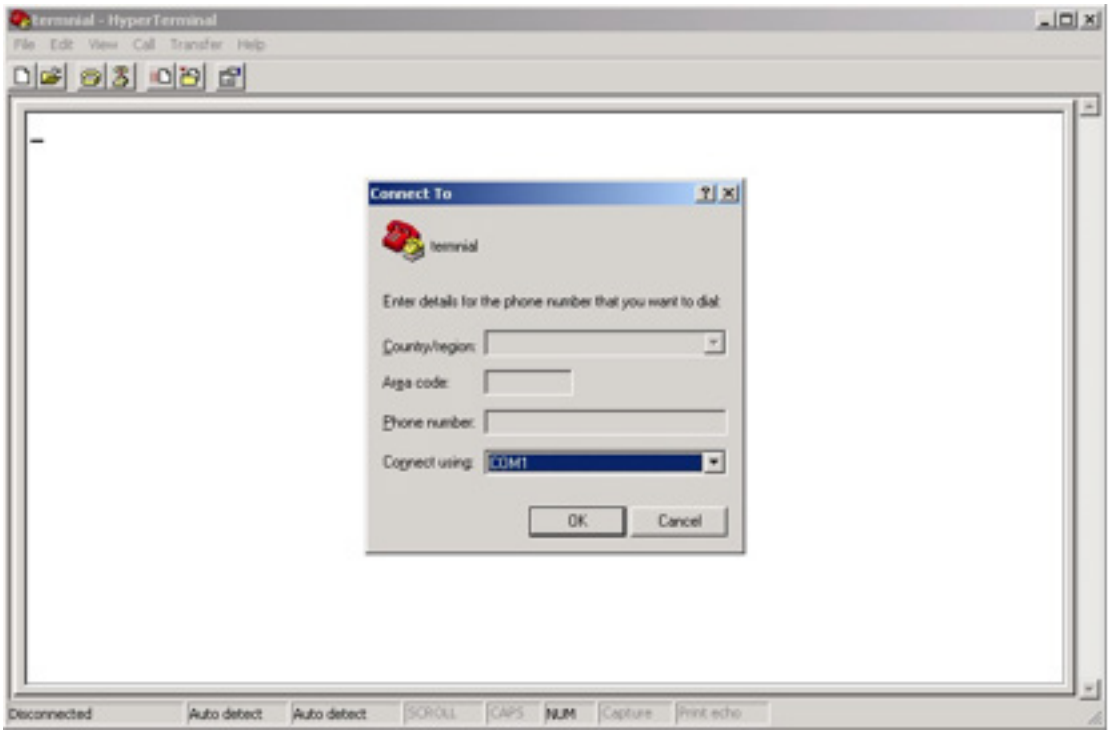
Step 1. From the Windows desktop, click on Start -> Programs -> Accessories -> Communications -> Hyper Terminal



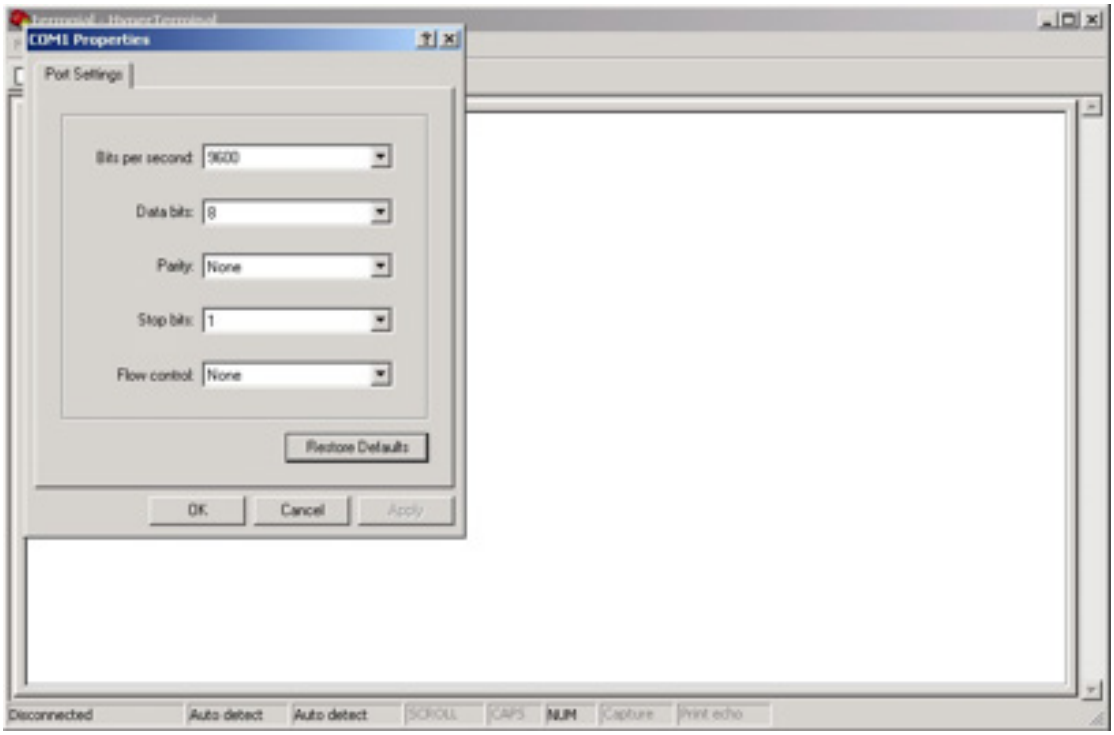
Step 2. Input a name for new connection



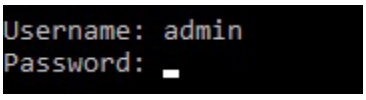
Step 3. Select to use COM port number



Step 4. The COM port properties setting, 115200 for Bits per second, 8 for Data bits, None for Parity, 1 for Stop bits and none for Flow control.



Step 5. The Console login screen will appear. Use the keyboard to enter the Username and Password (use the same password as the Web Browser), then press “Enter”. If a password has not been set, a new password must be set before proceeding or logging in to the web GUI. Please refer to p.11. The username is "**admin**" and the initial password is "**admin**". You will be prompted to set a new password.



CLI Management by Telnet

You can use “telnet” or similar virtual terminal software to configure the switch via a network connection. Note that you may need to install the Telnet client in certain versions of Windows (Settings > Turn Windows Features on or off > Telnet Client). You can also use a 3rd party Telnet client, such as PuTTY.

The default value is as below:

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

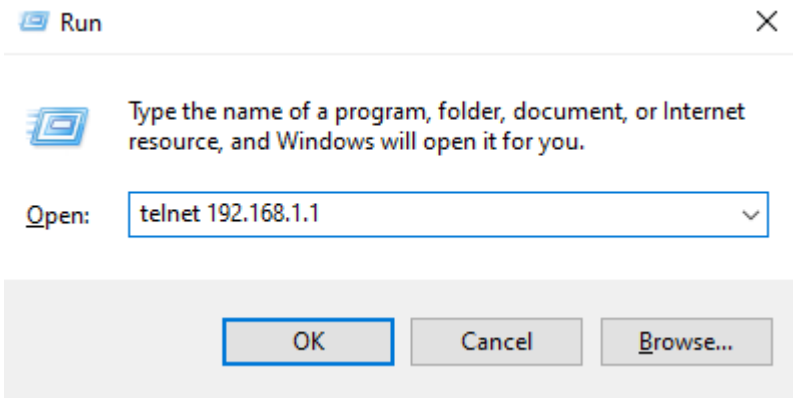
Default Gateway: 192.168.1.254

User Name: admin

Password: admin

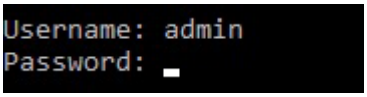
Follow the steps below to access the console via Telnet.

Step 1.Telnet to the IP address of the switch from the Windows “Run“ command (Win + R, or from the command prompt) as shown below.



Step 2. The Login screen will appear. Use the keyboard to enter the Username and Password (use the same password as the Web Browser), and then press “Enter”. If a password has not been set, a new password must be set before proceeding or logging in to the web GUI. Please refer to p.11. The username is "**admin**" and the initial password is "**admin**". You will be prompted to set a new password.

Console login screen

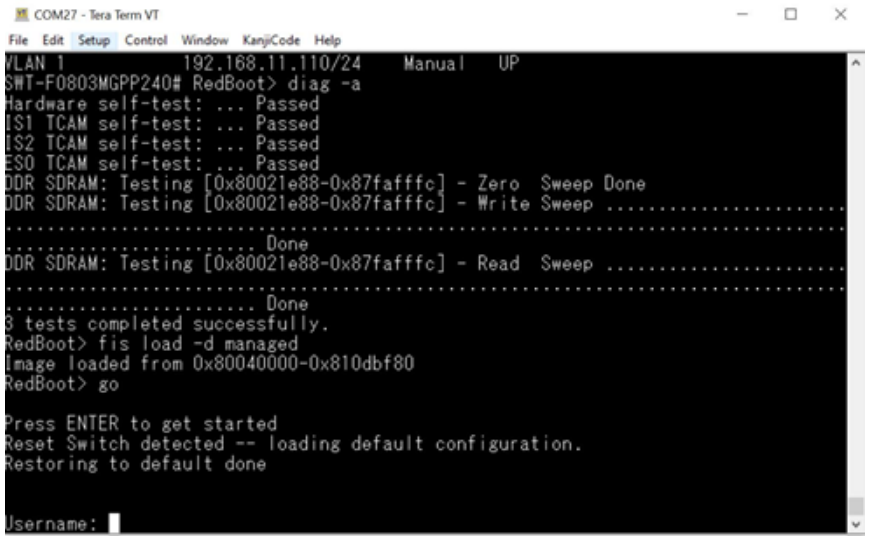


Factory Default Procedure

Wisenet switches have a procedure to return the unit to factory default configuration, deleting the running & startup configuration. This is useful in cases where the configured password cannot be remembered and the "reload defaults" command can not be used.

1. Start with switch in the powered-off state. Locate the reset button on the left hand side of the unit. The reset button is located inside the 3rd hole from the bottom, as shown in the image below. Press and hold the button using a paper clip.

. While holding down the button, power on the unit and wait for 60 seconds. If a console cable is connected you will see a message showing that a reset has been detected and that the switch has been reset to factory default.



3. Once the factory default has been completed and the unit has fully booted, please set a password using the CLI, as shown on page 11.