

Industrial Managed Gigabit Ethernet Switch

This quick start guide describes how to install and use the Industrial Managed Gigabit Ethernet Switch. This is the switch of choice for harsh environments constrained by space.

Physical Description

The Port Status LEDs and Power Inputs

LED	State	Indication
Power		
Power 1 Power 2 Power 3	Steady	Switch is properly connected to power and turned on.
	Off	Switch is not connected to power and is turned off.
Alarm		
Alarm	Steady	Power redundant system failure occurred.
	Off	Power redundant system failure is not occurred.
10/100/1000Base-TX, 1000Base-SX/LX/BX		
LNK/ACT	Steady	A valid network connection established. LNK stands for Link.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
Speed	Amber	A port transferring at 1000Mbps.
	Green	A port transferring at 100Mbps.
	Off	A port transferring at 10Mbps.

Power Input Assignment		
Power 3		12VDC DC Jack
Power 2	+	12-32VDC
	-	Power Ground
Power 1	+	12-32VDC
	-	Power Ground
		Earth Ground
Relay Output Rating		1A @ 24VDC
Relay Alarm Assignment		
FAULT	*Warning signal disable for following: 1.The relay contact closes if Power1 and Power2 are both failed but Power3 on. 2.The relay contact closes if Power3 is failed but Power1 and Power2 are both on.	

DC Terminal Block Power Inputs: There are two power inputs can be used to power up this switch. Redundant power supplies function is supported.

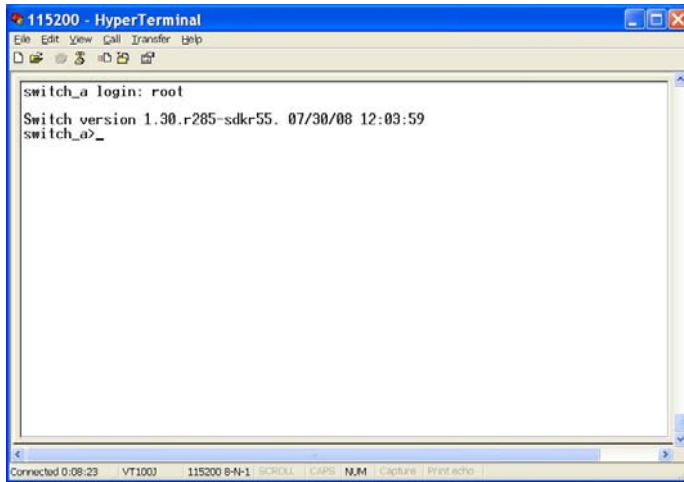
Functional Description

- Meets EN61000-6-2 & EN61000-6-3 EMC Generic Standard Immunity for industrial environment.
- Manageable via SNMP, Web-based, Telnet, and RS-232 console port.
- Supports Command Line Interface in RS-232 console.
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 10/100/1000Mbps, full/half-duplex. Auto MDI/MDIX.
- 1000Base-SX/LX: Multi mode or Single mode SC type; 1000Base-BX: WDM Single mode SC type.
- Support 4096 MAC addresses. Provides 1M bits memory buffer.
- Store-and-forward mechanism.
- Full wire-speed forwarding rate.
- Alarms for power failure by relay output.
- Operating voltage and Max. current consumption: 1.83A @ 12VDC, 0.92A @ 24VDC. Power consumption: 22W Max.
- Power supply: Redundant DC Terminal Block power inputs and 12VDC DC JACK with 100-240VAC external power supply.
- -20: to 60: (-4°F to 140°F) operating temperature range.
- Supports Din-Rail or Panel Mounting installation.

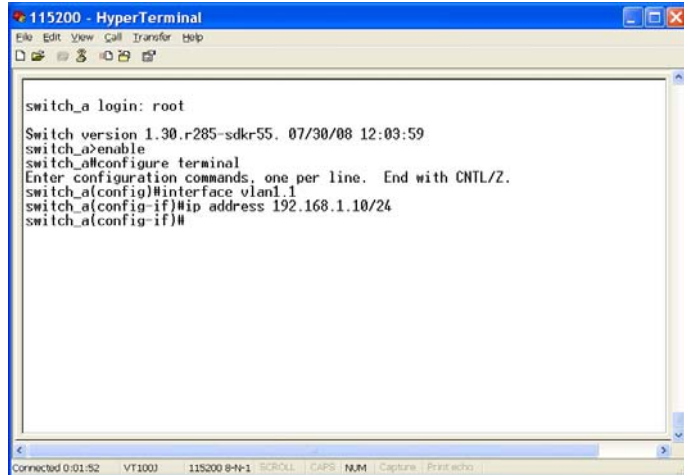
Console Configuration

- Connect to the switch console:
Connect the DB9 straight cable to the RS-232 serial port of the device and the RS-232 serial port of the terminal or computer running the terminal emulation application. Direct access to the administration console is achieved by directly connecting a terminal or a PC equipped with a terminal-emulation program (such as HyperTerminal) to the switch console port.
- Configuration settings of the terminal-emulation program:
Baud rate: 115,200bps
Data bits: 8
Parity: none
Stop bit: 1
Flow control: none.
- Press the "Enter" key. The Command Line Interface (CLI) screen should appear as below:
- Logon to Exec Mode (View Mode):
At the "switch_a login:" prompt just type in "root" and press <Enter> to logon to Exec Mode (or View Mode). And the "switch_a>" prompt will show on the screen.

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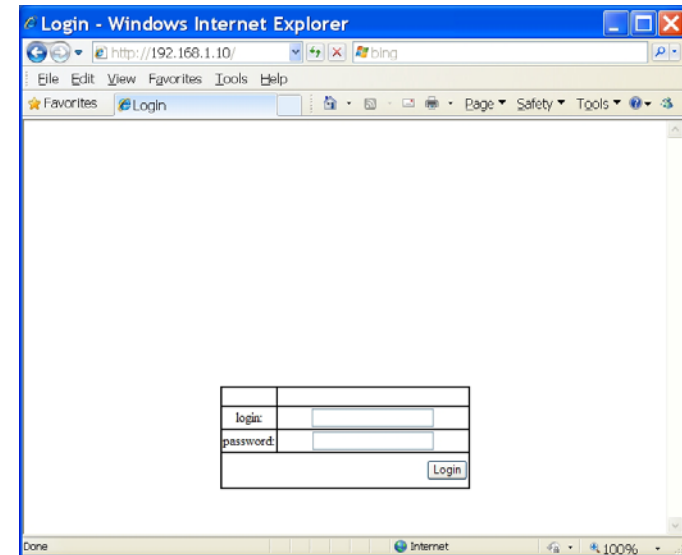


- Logon to Privileged Exec Mode (Enable Mode):
At the “switch_a>” prompt just type in “enable” and press <Enter> to logon to Privileged Exec Mode (or Enable Mode). And the “switch_a#” prompt will show on the screen.
- Logon to Configure Mode (Configure Terminal Mode):
At the “switch_a#” prompt just type in “configure terminal” and press <Enter> to logon to Configure Mode (or Configure Terminal Mode). And the “switch_a(config)#” prompt will show on the screen.
- Set new IP address and subnet mask for Switch:
At the “switch_a(config)#” prompt just type in “interface vlan1.1” and press <Enter> to logon to vlan 1 (vlan1.1 means vlan 1). And the “switch_a(config-if)#” prompt will show on the screen.
Command Syntax: “ip address A.B.C.D/M”. “A.B.C.D” specifies IP address. “M” specifies IP subnet mask. “M”= 8: 255.0.0.0, 16:255.255.0.0, or 24: 255.255.255.0.
For example, At the “switch_a(config-if)#” prompt just type in “ip address 192.168.1.10/24” and press <Enter> to set new IP address (192.168.1.10) and new IP subnet mask (255.255.255.0) for Switch.



Web Configuration

- Login the switch:
Specify the default IP address (192.168.1.10) of the switch in the web browser. A login window will be shown as below:



- Enter the factory default login ID: root.
Enter the factory default password (no password).
Then click on the “Login” button to log on to the switch.

