Quick Start Guide

Note: The EU Declaration of Conformity for this product can be found at www.siqura.com/support-files

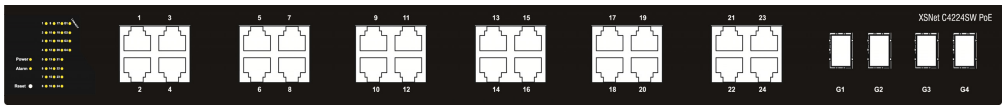
This quick start guide describes how to install and use the Hardened Managed PoE (Power over Ethernet) Ethernet Switch. This is the switch of choice for harsh environments constrained by space.

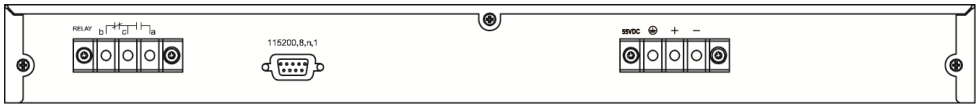
Functional Description

- Meets EN61000-6-2 & EN61000-6-4 EMC Generic Standard Immunity for industrial environment.
- Up to 24 10/100Base-TX PoE ports and 4 1000Base SFP.
- RS-232 console, Telnet, SNMP v1 & v2c & v3, RMON, Web Browser, and TFTP management.
- Supports Command Line Interface in RS-232 console.
- Supports 8192 MAC addresses. Provides 3M bits memory buffer.
- Supports IEEE802.3af & IEEE802.3at Power over Ethernet (PoE) Power Sourcing Equipment (PSE).
- Supports IEEE802.3/802.3u/802.3ab/802.3z/802.3x. Auto-negotiation: 1000Mbps-full-duplex; 10/100Mbps-full/half-duplex; Auto MDI/MDIX.
- SFP socket for Gigabit fiber optic expansion.
- Store-and-forward mechanism.
- Full wire-speed forwarding rate.
- Alarms for port failure by relay output.
- Terminal Block power input: +48 ~ +57VDC or -48 ~ -57VDC.
- Field Wiring Terminal: Use Copper Conductors Only, 60/75°C, 12-24 AWG torque value 7 lb-in.
- Operating voltage and Max. current consumption: 0.545A @ 55VDC. Power consumption: 390W Max. (Full load with PoE), 30W Max. (Without PoE).
- -40°C to 75°C (-40°F to 167°F) operating temperature range. Tested for functional operation @ -40°C to 85°C (-40°F to 185°F).
- Hardened metal case.
- Supports Rack Mounting installation.

Physical Description

The Port Status LEDs and Power Inputs





<Note> Relay normal: b and c open, c and a close. Relay alarm: b and c close, c and a open.

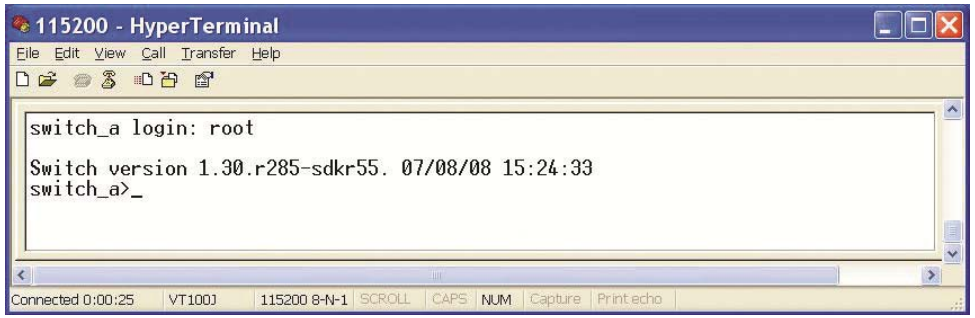
LED	State	Indication
Power	Steady	Power on.
	Off	Power off.
Alarm	Steady	Port failure is occurred.
	Off	Port failure is not occurred.
10/100Base-TX		
Link/ACT	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.
1000Base SFP		
Link/ACT	Steady	A valid network connection established.
	Flashing	Transmitting or receiving data. ACT stands for ACTIVITY.

Terminal Block Power Input

Terminal	Positive Supply	Negative Supply
–	0	-48 ~ -57
+	+48 ~ +57	0
⏚	Earth Ground	

Console Configuration

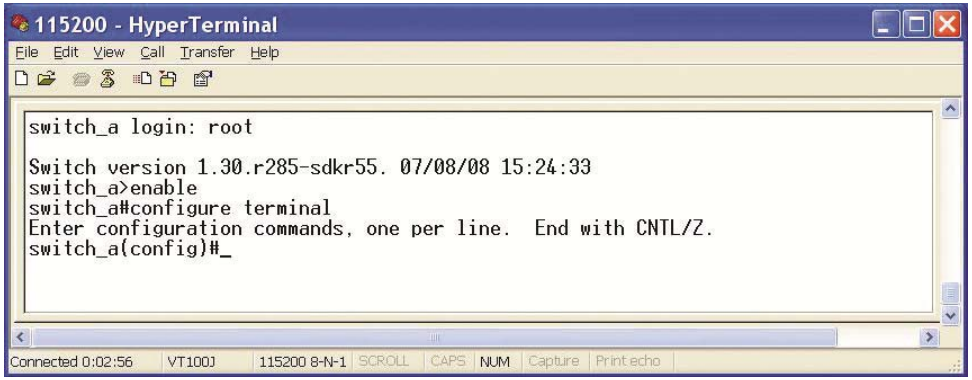
- Connect to the switch console:
  Connect the DB9 straight cable to the RS-232 serial port of the device and the RS-232 serial port of the terminal or computer running the terminal emulation application. Direct access to the administration console is achieved by directly connecting a terminal or a PC 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.



- Logon to Privileged Exec Mode (Enable Mode):

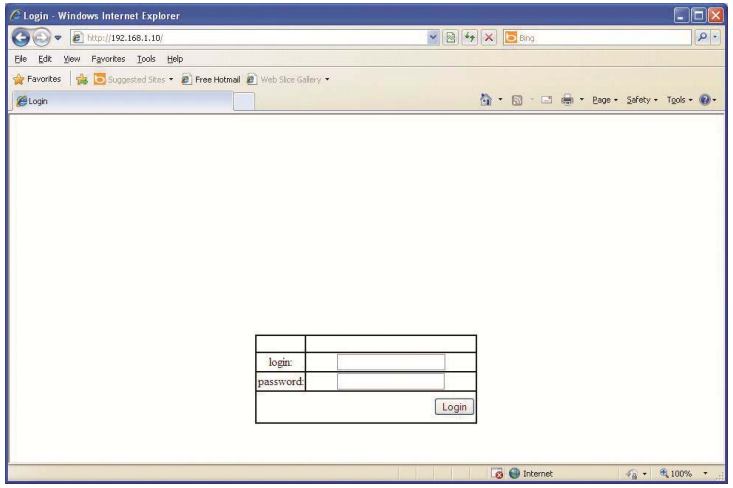
At the “switch_a>” prompt just type in “enable” and press <Enter> to logon to Privileged Exec Mode (or Enable Mode). And the “switch_a#” prompt will show on the screen.

- 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.