ER58000 Series Hardened Managed Ethernet Switch Installation Guide



1 Unpacking

Unpack the items. Your package should include:

- > One ER58000 Series hardened managed switch
- > Rack-mounting hardware brackets

One CD containing this user's guide If items are missing or damaged, notify your EtherWAN representative. Keep the carton and packing material.

What Else You Need

- Appropriate cables for data ports
- Personal computer or laptop

3 Select a Location

- > Desktop installations: Mount on a flat table or shelf surface.
- Rack installations: Use a 19-inch (48.3- \geq centimeter) EIA standard equipment rack that is grounded and physically secure.
- Identify a power source within 6 feet (1.8) meters).
- > Choose a dry area with ambient temperature between -40 and 75°C (-40 and 167°F).
- Be sure there is adequate airflow. \geq

4 Connect to the Data Ports

Your switch has the following ports:

- > 8 10/100Base-M12 D-Code 4-pin female ports
- > 2 Gigabit-M12 A-Code 8-pin female/LC ports

10/100Base-M12 Ports

These ports support Power over Ethernet (PoE). They conform to IEEE802.3at and provide up to 30W per port, with a total power budget of 120W. Use these ports to connect to devices such as an IP surveillance camera or a Voice Over Internet Protocol (VoIP) phone.

Gigabit-M12 Ports

These ports come as 10/100/1000Base-TX, 1000Base-SX, or 1000Base-LX interfaces.

These ports can connect to network devices such as a computer, printer, network video recorder (NVR), network storage, or they can connect to the network itself. Wear an ESD-preventive wrist strap before connecting to these ports.

5 Apply DC Power

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The switch supports two sets of power supplies power input 1 and power input 2. The M23 6-pin male connector on the front panel is used for the dual power inputs. Use a power cord with an M23 6-pin female connector to connect the power inputs to the switch.

Pin		Description	
Power 2	+	24-48VDC	
	-	Power Ground	
Power 1	+	24-48VDC	
	-	Power Ground	
Ē		Earth Ground	
Relay Output Rati	ing	1A @ 250VAC	

	Pin	Description
-	1	PWR1 Live / DC + (24-48VDC)
	2	PWR1 Neutral / DC -
	3	Chassis Ground
	4	PWR2 Neutral / DC -
	5	PWR2 Live / DC + (24-48VDC)

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Power-Up Sequence

When you apply DC power:

- > All Link/ACT LEDs blink momentarily.
- > The **Power** LED goes ON.
- > LEDs for ports connected to a device flash.

6 Front Panel LEDs

LED	Color	Status			
Power 1 Power 2	Green	ON = power on. OFF = power off.			
10/100Base-TX LEDs					
Link/Act	Green	ON = valid network connection established. Flashing = port sending or receiving data.			
	. 1	0/100/1000Base-TX LEDs			
Link/Act	1 Green	0/100/1000Base-TX LEDs ON = valid network connection established. Flashing = port sending or receiving data.			
Link/Act	1 Green	0/100/1000Base-TX LEDs ON = valid network connection established. Flashing = port sending or receiving data. 1000Base-SX/LX LEDs			

7 Managing the Switch

The following procedures are optional, but recommended for a basic configuration.

- A. Connect a PC to an available switch port using an appropriate cable.
- **B.** Confirm that the Link/ACT LED for the switch port to which the PC is connected is ON. If not, choose a different port.
- **C.** Configure the PC's TCP/IP settings to use the subnet 192.168.1.*x* and subnet mask 255.255.255.0, where *x* is a number from 2 to 254 other than 10.
- D. In a Web browser address bar, type http://192.168.1.10 and press Enter.
- E. Log in to the management interface:

(,০ - 脸 C X 💋 Login	×	
			L Enter root for the
			login name
	login:		2 Leave the password
	password.	Login	field blank
			3. Click the Login
			button

- **F.** Change the system name:
 - In the left pane, click + next to **System**, then click **System Name/Password**.
 - On the right side, click in the **System Name** text box.
 - Replace the name shown with a name you want to assign to the switch.
 - Click the **Update Setting** button.

System	System Name :	switch_a	
System Information System Name/Password - IP Address			Update Setting
Management Interface			
Save Configuration	Password:		
-Reboot	Retype Password :		
User Account			Update Setting
User Privilege			
Diagnostics			

- **G.** By default there is no password assigned to the switch. To add a password:
 - In the page above, click in the **Password** text box, enter a password, and retype it in the **Retype Password** text box.
 - Click **Update Setting** below the **Retype Password** text box.
- H. Change the switch's IP address and subnet mask to match the scheme on your network:

System 1	Static IP:			
System Information System Name Password	VLAN ID	IP Address	IP Subnet Mask	1. Click on the + next to
IP Address ← 2	. 1	10.58.7.78	255 255 255 0	system
Management Interface	Default Gateway	Disable -	1	L Balan Pili
Firmware Upgrade Reboot		3.	Apply & Save	2. Click on IP Address
Logout User Account User Privilege Diagnostics	DHCP Client:		3. Enter the IP Address and Subnet Mask	
Port	DHCP Client			
Switching Trunking	VLAN ID	IP Address	IP Subnet Mask	4. Click on the
STP Ring	DHCP Disable			Apply & Save button
CI VLAN CI QoS CI SNMP				
602.1X	DNS Server	Disable	-	
Others Protocols			Submit	
	MAC Address	00e0.b	323.0150	