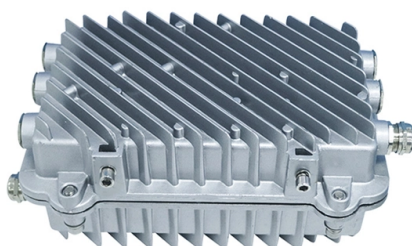


Configuring a 100Mbps Fiber Optic Switch



Overview

Build a home fiber network for 1-2 Gbps speeds with this complete guide to installation, troubleshooting, and performance.

Key Takeaways

To configure a 100Mbps fiber optic switch, install a 100BASE-FX SFP module, enable the fiber port, set speed/duplex, configure VLANs, and save the configuration. Step 1: Install the 100BASE-FX SFP Module

Insert a 100BASE-FX SFP transceiver into the fiber-enabled port of your switch. These modules convert electrical Ethernet signals into optical signals for multimode fiber, typically operating at 1310nm and supporting distances up to 2 km . Ensure the SFP is compatible with your switch model, as some devices require specific firmware or certified transceivers for stable operation .

Step 2: Enable the Fiber Port

After physically installing the SFP, access the switch via a terminal client (e.g., PuTTY) and enter configuration mode. For example, on Ruckus ICX switches, you would use:

```
Device# config t
Device(config)# interface ethernet 1/1/6
Device(config-if-e1000-1/1/6)# 100-fx
```

This command enables 100BASE-FX support on the selected port . On Cisco switches, ensure the port is set to the correct speed and duplex mode for 100Mbps full-duplex operation .

Step 3: Configure VLANs

If your network uses VLANs, assign the fiber port to the appropriate VLAN to separate traffic logically. For example:

```
Device(config-if)# switchport mode access
Device(config-if)# switchport access vlan 10
```

This ensures the fiber link participates in the correct network segment .

Step 4: Verify Connectivity

Check the link status and ensure the fiber connection is active. Commands like `show interfaces status` or `show fiber-ports` can confirm the port is up and transmitting at 100Mbps full-duplex . Ensure the fiber cable type and length match the SFP specifications to avoid errors.

Step 5: Save Configuration

Once the port is configured and verified, save the running configuration to the startup configuration to persist after a reboot:

```
Device# copy running-config startup-config
```

This prevents the 100BASE-FX configuration from being lost on reload, which is a known issue on some switch models .

Best Practices

- Use certified SFP modules to avoid unpredictable behavior and ensure link stability .
- Clean fiber connectors before insertion to prevent signal loss.
- Confirm firmware compatibility for 100BASE-FX support on your switch.
- Monitor the link for errors using commands like `show interfaces counters errors`. By following these steps, you can reliably configure a 100Mbps fiber optic switch for industrial, enterprise, or legacy network environments, ensuring stable and interference-resistant fiber connectivity .

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