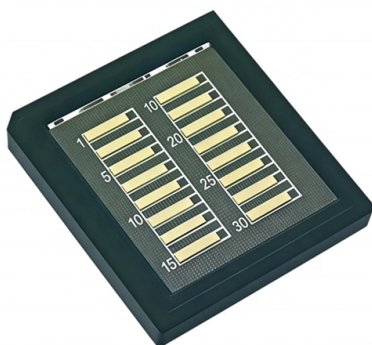


Add fiber optic cable to AP panel



AI Overview

To add a fiber optic cable to an access point panel, you need compatible fiber patch panels, pre-terminated fiber cables, and media converters or SFP modules to connect the AP to the fiber network.

Required Components

- Fiber Patch Panel:** Choose a panel suitable for your environment, such as Belden FX ECX for LANs or DCX for high-density data centers, which provides organized ports for fiber connections and easy management.
- Pre-Terminated Fiber Cables:** Use factory-terminated cables with SC/APC or LC connectors to ensure low insertion loss and reliable connections.
- Media Converters or SFP Modules:** If your AP does not have a native fiber port, use a 10G fiber media converter or SFP+ module to convert electrical signals from the AP to optical signals for the fiber link.
- Mounting Hardware:** DIN-rail or rack-mount brackets may be required to secure media converters or patch panels in your network cabinet.

Installation Steps

- Plan the Layout:** Determine the fiber route from the AP panel to the network switch or distribution point. Ensure minimal bends and avoid sharp angles to prevent signal loss.
- Install the Patch Panel:** Mount the fiber patch panel in your rack or enclosure. Label each port for easy identification.
- Connect Fiber Cables:** Plug pre-terminated fiber cables into the patch panel ports. Use single-mode or multi-mode fiber depending on your network requirements and distance.
- Connect to AP:** If the AP supports fiber directly, connect the fiber cable to the AP's SFP port. If not, connect the fiber to a media converter, then use an Ethernet cable from the converter to the AP.
- Test the Link:** Perform a Tier I loss test or use an optical power meter to verify signal integrity and ensure the connection meets ANSI/TIA-568 standards.
- Secure and Manage Cables:** Use cable management trays or ties to prevent strain on the fiber and maintain a clean installation.

Best Practices

- Use pre-terminated cables to reduce field termination errors and insertion loss.
- Keep fiber connectors clean and dry; use dust caps when not connected.
- Maintain a bend radius of at least 10 times the fiber...

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You can connect the fiber-optic networking cable to the SFP port (labeled "4" on the base of the AP). The small form-factor pluggable (SFP) transceiver module is

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