Huijue Switch Fiber to Electrical Converter

Overview

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Key Takeaways

To convert fiber to electrical signals on a Huijue switch, ensure proper media converter mode, correct DIP switch or jumper settings, and accurate fiber-to-copper cabling.

Media Converter Configuration

Huijue switches typically use fiber media converters to bridge fiber-optic and Ethernet (copper) networks. These converters translate optical signals to electrical signals and vice versa, allowing long-distance fiber connections to interface with standard Ethernet devices. Key steps include: Select the correct converter type: Use single-mode fiber for long distances and multimode fiber for shorter distances.

Set the operating mode: For 1000M (Gigabit) fiber-to-copper conversion, the converter or PHY must be set to 1000M Media Converter mode. On some evaluation boards, this is done via a jumper (e.g., OP_MO) to strap the device into the correct mode.

DI

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P switch settings: Many converters have DIP switches to enable features like full-duplex, flow control, jumbo frames, or link fault pass-through. For Gigabit Ethernet, ensure full-duplex is ON and flow control is configured according to your network needs.

Fiber and Electrical Cabling

Proper cabling is critical for reliable conversion: Hybrid cables: Use switch-side pigtails on the switch and AP-side pigtails on the remote device. Ensure optical fibers are connected TX-to-RX and RX-to-TX. Splicing and protection: If using pigtails, splice carefully and place them in a fiber management tray or hybrid cable terminal box to prevent damage or contamination.

Distance and placement: Maintain recommended distances between the switch, hybrid cable, and any hybrid optical-electrical LPUs (e.g., 14–16U in a cabinet) to allow proper airflow and cable management. Troubleshooting TipsLED indicators: Verify link status using LEDs. A blinking LD or LDR usually indicates active fiber communication, while power and voltage LEDs confirm proper supply.

Register persistence: On some boards, register values for media conversion may reset after power cycling. Strapping the device into the correct mode ensures the settings persist without manual reconfiguration. Compatibility: Ensure all devices on the link support the same speed and duplex settings to avoid connectivity issues.

Summary

To successfully configure a Huijue switch for fiber-to-electrical conversion: Use the correct fiber type and media converter. Set the converter to 1000M Media Converter mode via jumper or register strapping.

Configure DI

P switches for full-duplex and optional features. Connect hybrid cables correctly, observing TX/RX orientation and pigtail types. Verify link status with LEDs and ensure register settings persist after power cycles.

Following these steps ensures stable, high-speed fiber-to-Ethernet conversion on Huijue switches.

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