

Article Overview

Huijue fiber optic switches can integrate WWN-based device management to enable persistent and dynamic port assignments in FTTX and data center networks.

Overview of Huijue Fiber Optic Switches

Huijue Networks manufactures modular fiber optic switches and components designed for FTTX systems, data centers, and smart network infrastructures. Their solutions include fiber-to-fiber and fiber-to-device interconnects, precision fiber optic assemblies, and modular cabinets with intelligent temperature control, power supply, and AI integration . These switches are designed for easy installation, expansion, and high reliability, supporting both point-to-point and complex network topologies. Huijue's products are widely used by major telecom operators and exported globally .

WWN-Based Device Management

A WWN (World Wide Name) is a unique identifier assigned to each device in a fiber channel network. In a WWN-based configuration:

- o Persistent Identifier (PID) Assignment: Devices are bound to a specific WWN, ensuring that when a device logs in to the switch, it receives the same PID regardless of the port it connects to .
- o Dynamic Area Assignment: When enabled, the switch dynamically assigns PIDs to new devices as they log in, maintaining a WWN-to-PID mapping database. Existing devices must be manually entered if the feature is enabled after deployment .
- o Scalability: The system supports up to 4096 devices, including both point-to-point and NPIV devices, with automatic purging of the oldest unused entries when the database reaches capacity .
- o Flexibility: Devices can be hot-plugged or moved to different ports without losing their assigned PID, which simplifies network management and reduces configuration errors .

Integration with Huijue FTTX Solutions

Huijue's fiber optic switches can be integrated into FTTX networks and modular data centers, leveraging WWN-based management for:

- o Automated device recognition and configuration in large-scale deployments.
- o Simplified network expansion, as new devices automatically receive PIDs without manual reconfiguration.
- o Enhanced reliability, ensuring consistent device identification and reducing downtime during maintenance or upgrades.
- o Compatibility with intelligent cabinets, which provide power, cooling, and monitoring for fiber optic



Huijue Fiber Optic Switch wwn

equipment .

Practical Benefits

Using a Huijue fiber optic switch with WWN-based management provides:

- o Reduced administrative overhead for large networks.
- o Persistent device mapping, improving network stability.
- o Support for high-density deployments in data centers and telecom networks.
- o Seamless integration with Huijue's modular FTTX and smart city solutions .

In summary, Huijue fiber optic switches combined with WWN-based PID assignment offer a robust, scalable, and intelligent solution for modern fiber optic networks, ensuring persistent device identification, dynamic port allocation, and simplified network management.

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Also sell to worldwide, such as USA, Europe, Middle East, Southeast Asia and Australia. Our production base is equipped with

Addressing All devices in Fibre Channel network have an identity. Worldwide name (WWN) All FC devices have a unique identity

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As a leading Fiber Optical Components manufacturer and supplier, Huijue has been providing customers with the best and most

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