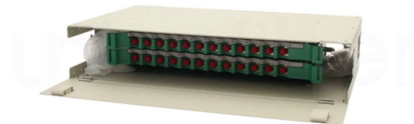


Huawei 16 Passive Aggregation Switch



AI Overview

The Huawei 16 Passive Aggregation Switch (HW-PEN-16LC) is a passive optical aggregation module designed for all-optical campus networks, enabling 2:8 optical splitting without requiring power or ELV rooms.

Overview The Huawei 16 Passive Aggregation Switch is part of the Xingmai Passive Ethernet Network (PEN) solution, which is an all-optical campus network architecture ideal for high-density environments such as education, healthcare, and enterprise campuses. The switch functions as a passive aggregation module, also referred to as a passive optical splitter or multiplexer, and is used to aggregate and distribute optical signals between central switches and remote devices like access switches, RUs, and Wi-Fi APs.

Hardware Features

- Model Options:** HW-PEN-16LC-2KM and HW-PEN-16LC-10KM, supporting different optical reach distances.
- Passive Operation:** No mains power supply is required, minimizing fire risks and eliminating the need for ELV rooms.
- Optical Splitting:** Supports 2:8 passive optical splitting, meaning two uplink channels can be split into eight downlink channels for remote devices.
- Uplink Multiplexing:** Aggregates signals from multiple remote modules into a single uplink channel, enabling efficient bidirectional optical communication.
- Installation:** Can be installed in a passive aggregation module subrack, which has three slots and is rack-mountable. Each slot can host one HW-PEN-16LC module.

Operational Principles

- Downlink Direction:** The module splits optical signals from the uplink proportionally, without altering wavelengths. Each TX port carries all eight channels from the central optical module.
- Uplink Direction:** Multiplexes signals from remote optical modules into a single uplink channel, ensuring efficient aggregation.
- Flexibility:** The passive design allows flexible deployment in locations where power availability is limited or where minimizing infrastructure complexity is desired.
- Integration with Huawei Networks** While the passive aggregation module itself does not require configuration...

Article Content

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PEN Passive Aggregation Module Access Switch/RU Campus: XXXXXX Building:
XXXXXX Floor: XXX Equipment room: XXX Cabinet No.: XXX Slot number: XXU Device
ID: XXX Device model:

Campus Switches | Huawei Enterprise

Huawei campus switches offer high-performance, secure, and reliable switching for enterprises, governments, finance and manufacturing networks. Learn more.

Huawei CloudEngine S6730-H-V2 Series PEN Central Switches

High-quality Ethernet solution: ultra-high-density central switch + passive aggregation module, implementing exclusive bandwidth and passive weak-current communication. Ultra-high density: 1U

Configuring the Core Switch to Connect to the Passive Aggregation ...

Data Plan This solution uses the following configuration as an example: The PEN central switches connect to one access switch and one RU through the passive aggregation module, as shown in

Other Components

High-Quality 10 Gbps CloudCampus Solution V100R024C10 Deployment Guide for the Xingmai Passive Ethernet Network (PEN) Solution This document describes the Passive Ethernet Network (PEN)

Configuring the Core Switch to Connect to the Passive Aggregation ...

Deployment Process Installation Deployment Using iMaster NCE-Campus Configuring Core Switch Stacking Configuring the Core Switch to Communicate with the NMS Configuring the

Huawei Link Aggregation Configuration | Huawei LAG Config ★

In this lesson, we will talk about Huawei Link Aggregation Configuration. We will show Huawei Link Aggregation Configuration with two examples. One of these examples will be for Layer 2 and the

What Is Xingmai PEN? What Are the Advantages of Xingmai PEN ...

Huawei's Xingmai Passive Ethernet Network (PEN) Solution is an all-optical campus network solution based on passive technologies. The Xingmai PEN Solution is particularly suitable

LACP Link Aggregation Interworking or Replacement Guidance ...

The Link Aggregation Control Protocol (LACP) is a public protocol and LACP Data Units (LACPDUs) are the same, so Huawei devices can interwork with or replace third-party devices that support LACP.

FAQs of the PEN Solution

Some differences are as follows: Only the PEN central switch supports the dual-uplink solution for passive aggregation modules and Eth-Trunk master/backup mode. In V600R024C00, a maximum of

Dynamic vs Static Link Aggregation: Differences & Use

Dynamic link aggregation uses LACP (Link Aggregation Control Protocol) to automatically negotiate link membership and health. It can detect,

Deployment Guide for the Xingmai Passive Ethernet Network (PEN)

In the dual-uplink solution for passive aggregation modules, dual-link backup is achieved between PEN central switches and passive aggregation modules. Both UPLINK-1 and UPLINK-2 on passive

Link Aggregation Configuration

Example for Configuring Link Aggregation in Manual Mode When Switches Are Directly Connected Overview Ethernet link aggregation increases link bandwidth by bundling multiple physical links to

Introducing Huawei's PEN technology: Transforming campus

Instead of traditional active aggregation switches, PEN uses passive aggregation modules – resulting in a more sustainable, simplified and future-ready network design.

Huawei SmartAX MA5600T/MA5603T/MA5608T OLT

Specifically, 16 ports on a GPON board consume less than 73 W of power. Supports idle board automatic power-off and intelligent fan speed adjustment, effectively lowering idle board power

PEN Passive Aggregation Module

PEN Passive Aggregation Module Overview For dense-room scenarios such as education and healthcare, Huawei launched the high-quality simplified network solution, which supports both active

PEN Passive Aggregation Module

One passive aggregation module (HW-PEN-16LC-2KM or HW-PEN-16LC-10KM) can be installed in each slot. This passive aggregation module has no need for mains power supply or ELV rooms,

Configuring Aggregation and Access Switches to Be Managed by the ...

A large number of aggregation and access switches need to be deployed on a large or midsize non-virtualized campus network. Therefore, during the initial batch deployment of

Huawei Xingmai PEN Solution Installation and Deployment Video

What is the Xingmai PEN Solution?  Passive Ethernet Network: ideal for scenarios with high room density, such as education and healthcare

Network Switches | Huawei Enterprise

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and simplified management.

Configuring Link Aggregation in LACP Mode

Configure Link Aggregation in LACP Mode on the Huawei CX320 Switch Module to increase bandwidth and improve connection reliability.

Xingmai PEN Passive Aggregation Module Quick Start Guide

One passive aggregation module (HW-PEN-16LC-2KM or HW-PEN-16LC-10KM) can be installed in each slot. This passive aggregation module has no need for mains power supply or ELV rooms,

Dual-Uplink Solution for Passive Aggregation Modules

In the dual-uplink solution for passive aggregation modules, dual-link backup is achieved between PEN central switches and passive aggregation modules. Both UPLINK-1 and UPLINK-2 on passive

Contact Us

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