

How much optical power does an H3C switch need to achieve



Article Overview

The maximum optical power of H3C switches depends on the SFP/SFP+ transceivers used, typically ranging from +0 dBm to +5 dBm for standard 1G/10G modules.

Overview

H3C switches, such as the S5024PV3-EI-PWR, S5850 series, and S12500X-AF series, support 1000BASE-X (1G) and 10GBASE-X SFP/SFP+ ports for fiber connectivity. The maximum optical power is determined by the transceiver module installed rather than the switch itself. Standard H3C SFP modules include:

- 1000BASE-SX (short-range, multimode fiber): Typical output power 0 dBm to -4 dBm, wavelength 850 nm.
- 1000BASE-LX/LH (long-range, single-mode fiber): Typical output power 0 dBm to +5 dBm, wavelength 1310 nm.
- 10GBASE-SR (short-range, multimode fiber): Typical output power -1 dBm to +2 dBm, wavelength 850 nm.
- 10GBASE-LR (long-range, single-mode fiber): Typical output power 0 dBm to +5 dBm, wavelength 1310 nm.
- 10GBASE-ER (extended-range, single-mode fiber): Typical output power +3 dBm to +5 dBm, wavelength 1550 nm.

Considerations



Article Content

H3C S6800 Series Data Center Switches

H3C S6800 series switch is H3C self-developed cloud ready data center intelligent switches. The S6800 series switch delivers cloud

Knowledge Base

As the data navigation entry for the company's full range of products, the data center mainly provides service documents such as

H3C Products Catalogue

H3C FS5500V2-EI series switches support a new generation of optical and electrical combined interfaces and provide 300m PoE++

H3C S5120V3-LI Series (2026): Models Comparison and Selection

A PoE switch is limited by its total PoE power capacity. For example, your switch might have 24 PoE ports, but the power budget can

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H3C S5130S-HI Switch Series – A robust (modular dual power), cost-effective and easy to deploy Layer 3 access switching solution

H3C S7500X-G Series Optical Line Terminal (OLT)-H3C

The uplink supports multiple access rates including 100G, 40G, 25G, 10G, and GE. The S7500X-G OLT can achieve simultaneous

H3C S1600V2 Switches: Model Comparison, PoE Budgets and Uplink

For 2026 planning, the H3C S1600V2 series is a "right-sized" access-switch family for small/medium networks that need Gigabit

H3C S6520X-SI Series Multi-Gigabit 10GE Switches-H3C

H3C S6520X-SI Series Switches—Industry-leading high performance and scalable 10GE access switching solution with modular

How much optical power does an H3C switch need to achieve

A: Add up realistic device power: (APs × typical watts) + (cameras × typical watts) + (phones/doors × typical watts), then add 20-30%

H3C S6812/S6813 Data Center Switches Datasheet

Explore the H3C S6812/S6813 series data center switches: features, specs, and benefits for high-density networks. Download the

H3C S6825 Series Data Center Switches

H3C S6825 high-density intelligent switch series is developed for data centers and cloud computing networks. It provides powerful

H3C S5850 Series Data Center Ethernet Switch

H3C S5850 series switches are data center-level high-density Ethernet switch products independently developed by H3C. The

H3C ES4200 Gigabit Switch Series

H3C ES4200 series is the latest development of Gigabit speed managed Ethernet switch. Besides high-performance access, it also

Switches-H3C

Products Data Center Switches Campus Network Switches AON Network Industrial Switches Data Center Switches Ultra-wideband,

H3C S7500X-G Series Hardware Information

The total power consumption of the switch is the power consumptions of all operating cards and fan trays. It varies by the type and

H3C FS5500V2-EI Series Converged Optical Electrical Switches

H3C FS5500V2-EI series switches support M-LAG, which enables links of multiple switches to aggregate into one to implement

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