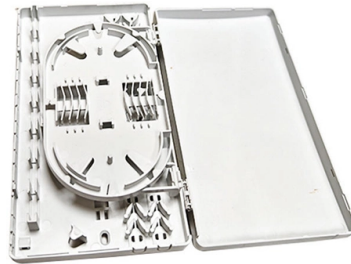


What are the optical port bands of the switch



Overview

Common optical port types for switches include 155M, 1. 25G, 10G, 25G, 40G, and 100G. RJ45 ports serve access-layer copper connections; SFP/SFP+ ports enable flexible 1G/10G uplinks; SFP28 delivers 25G for modern data centers; QSFP+ and QSFP28 support high-density 40G/100G spine-leaf. A passive optical network (PON) or Gigabit Passive Optical Network (GPON) is a point-to-multipoint (P2MP) network that uses a combination of active transmission equipments and passive cable components to provide network connectivity to end user's devices. This network is suitable for building. An all-optical Ethernet switch is a network switch whose service ports are entirely optical, meaning every interface uses fiber rather than copper. This design enables end-to-end optical signal transmission, avoiding the conversion between electrical and optical signals at the switch port level. As network demands explode – driven by cloud computing, AI, 5G, and hyper-scale data centers – the limitations of 10 Gigabit Ethernet (10GbE) become apparent, while 100 Gigabit Ethernet (100GbE) can be overkill or too costly for many applications.

Article Content

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