Gigabit Layer 2 Intelligent Access Switch



Overview

H3C S1850V2-EI switch series provides convenient and intelligent Web management with visual port configuration and easy-to-operate pages.

Key Takeaways

Gigabit Layer 2 Intelligent Access Switches provide high-speed connectivity, advanced Layer 2 management, and flexible deployment options for enterprise and SMB networks.

Overview

Gigabit Layer 2 Intelligent Access Switches are designed to deliver high-performance network access with full Gigabit Ethernet speeds. They operate primarily at Layer 2 of the OSI model, handling switching, VLAN segmentation, and traffic management while offering intelligent features such as QoS, ACLs, port security, and redundancy protocols. These switches are ideal for small to medium-sized enterprises, educational institutions, hotels, government offices, and industrial networks.

Key Features

Port Configurations: Models range from 16 to 50 ports, often including 10/100/1000 Mbps RJ45 ports and SFP slots for fiber connectivity, enabling flexible network expansion. Management Options: Many switches support Web-based GUI, SNMP, RMON, Telnet, CLI, and cloud management platforms like Zyxel NebulaFlex Pro, allowing both local and remote network monitoring and configuration. Security Features: Advanced Layer 2 security includes ACLs, IP-MAC-Port-VID binding, port security, DHCP snooping, RADIUS authentication, and protection against DoS attacks.

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Traffic Control and Qo

S: Intelligent switches provide L2–L4 QoS, port mirroring, multicast control (IGMP Snooping, MVR), and bandwidth management, ensuring smooth handling of voice, video, and data traffic. Redundancy and Reliability: Many models support RSTP/STP, Turbo Ring, Turbo Chain, and redundant power supplies, enhancing network uptime and reliability, especially in industrial or mission-critical environments.

Po

E Support: Some models offer Power over Ethernet (PoE) to power devices like IP cameras, VoIP phones, and wireless access points directly through the switch ports.

Use Cases

Enterprise Networks: Provide high-speed access for desktops, servers, and IP phones while maintaining VLAN segmentation and traffic prioritization. Industrial Networks: Fanless, ruggedized switches with redundant power and high reliability for automation and transportation systems. Educational and Hospitality Environments: Support converged applications like VoIP, IPTV, and video conferencing with intelligent traffic management.

SM

B Deployments: Cost-effective Layer 2 switches with web or cloud management for easy setup and monitoring. Examples of Popular ModelsH3C S1850V2-X Series: Layer 2 Gigabit access switches with enhanced security and manageability for diversified network scenarios. Intellinet 24-Port Web-Managed GbE Switch (560917): Offers 24 Gigabit RJ45 ports plus 2 SFP ports, with SNMP and web management, ACLs, QoS, and port aggregation.

Moxa ICS-G7528A Series: Industrial full Gigabit switches with 24 Gigabit ports and up to 4 10-Gigabit ports, supporting redundancy and high reliability. Zyxel GS2220 Series: Managed Layer 2 switches with 10–50 ports, PoE options, and NebulaFlex Pro cloud management. TP-Link JetStream TL-SG3216: 16-port Gigabit L2 switch with 2 combo SFP slots, QoS, ACLs, and security features for SMB networks.

These switches combine high-speed connectivity, intelligent Layer 2 features, and flexible management options, making them suitable for a wide range of network environments where performance, security, and reliability are critical.

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Article Content

H3C S1850V2-X Layer 2 Gigabit Access Switch Series

H3C S1850V2-X switch series implements the built-in intelligent port speed limit and energy-saving hibernation functions, and the whole device adopts various green

H3C S1850V2-EI Layer 2 Gigabit Access Switch Series

H3C S1850V2-EI switch series provides convenient and intelligent Web management with visual port configuration and easy-to-operate pages. H3C

Gigabit Switch | L2 Gigabit Dual Stack Intelligent Switch

Digisol DG-GS4628E2 L2 Gigabit Dual Stack Intelligent Switch in-built with advanced security features including RADIUS & TACACS+ Authentication.

24-Port Gigabit Managed Layer 2 Switch

TRENDnet''s 24-Port Gigabit Managed Layer 2 Switch, model TL2-G244, has 24 x Gigabit ports, 4 x shared SFP slots, a console port, and an advanced Layer 2 management feature set.

24-Port Web-Managed GbE Switch w/ 2 SFP Ports 560917

This 24 + 2 Layer 2 Gigabit Switch is a high-performance SNMP-managed device that provides users with 24 10/100/1000 Mbps Ethernet and 2 additional Gigabit

Cisco SRW224P 24-Port 10/100 + 2-Port Gigabit

The Cisco ® SRW224P 24-Port 10/100 + 2-Port Gigabit Switch (Figure 1) offers a highly secure way to expand your network. Web-based

12 Port Switch Ethernet 10 Port Gigabit L2 Managed

IES6300 Series are 10/12-port layer 2 managed industrial Gigabit Ethernet switches with optional PoE. PoE power supply conforms to IEEE 802.3af/at protocol

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Securely connect users, devices, and workloads everywhere. Cisco networking solutions simplify operations, boost performance, and scale to meet your demands.

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Stay in control with Cisco data center networking solutions that provide industry leading networking operations, automation, and sustainability.

H3C S1850V2-X Layer 2 Gigabit Access Switch Series

H3C S1850V2-X series Ethernet switch is the layer 2 Gigabit access switch developed and designed by New H3C Technologies Co., Ltd. (H3C) especially for meeting high-performance network

GbE Switch

Industrial 8 Port Gigabit PoE+ Switch w/2 SFP MSA Slots - 30W - Layer/L2 Switch Hardened GbE Managed - Rugged High Power Gigabit Ethernet Network Switch

Layer 2 Gigabit Switches

Layer 3 Managed Gigabit Switch In general, a Layer 3 switch (routing switch) is primarily a switch (a Layer 2 device) that has been enhanced or taught some routing to deliver intelligent edge

EdgeSwitch Datasheet

Advanced Switching Technology for the Masses Build and expand your network with Ubiquiti Networks® EdgeSwitch®, part of the EdgeMAX® line of products. The EdgeSwitch is a fully managed, PoE+

24-Port Rackmount Managed Network Switch

About this item This 24 port PoE switch is a full gigabit managed PoE+ switch delivering reliable, cost effective Power over Ethernet with web and local management. A rack mounted option for IT

LAN Switches

LAN Switches Featuring user-friendly efficient IP management, IPv4 and IPv6 hardware Layer 3 routing, PLANET LAN switches are designed for SMBs, system integrators and large enterprises when

Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost-efficient and meet the demands of hybrid work.

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