

HD1500/HD1800 Series Industrial Switches

The HD1500/HD1800 series switches are the next-generation of green energy-saving unmanaged Ethernet access industrial switches introduced by **. They can be widely used in industrial scenes such as smart cities, smart transportation and smart

Product Overview

The HD1500/HD1800 series switches provide superior industrial quality with high/low temperature and lightning protection through fanless heat dissipation design, redundant circuit design, wide operating temperature and high protection level, and enhance the reliability and security of industrial networks, meets deployment requirements in a variety of harsh environments.

The HD1500 consists of 100M access switches and 1G access switches.






The 100M access switches include the HD1500-1FT1FS, HD1500-2FT1FS, HD1500-1FT2FS, HD1500-2FT2FS, HD1500-5FT, HD1500-4FT1GS, HD1500-8FS2GT and HD1500-8FS1GT1GS.

The 1G access switches include the HD1500-1GT1GS, HD1500-2GT1GS, HD1500-1GT2GS, HD1500-2GT2GS, HD1500-5GT, HD1500-4GT1GS, HD1500-4GT2GS, HD1500-8GT, HD1500-8GT1GS, HD1500-8GT2GS, HD1500-3GT12GS and HD1500-2GT12GS.

The HD1800 series include the HD1800-8GT2XS and HD1800-16GT4XS.

Product Description



| Product | Description |
|----------------|--|
| HD1500 -1GP1GS | <ul style="list-style-type: none">  Downlink: 1 * 10/100/1000Base-T Ethernet Port  Uplink: 1 * 1000BASE-X  Wide voltage DC power supply, anti-reverse connection  Forwarding performance: 2.98Mpps  Switch capacity: 4Gbps |

Function Customization(Optional)


| Function | Description | Example |
|---------------------------------|---|--|
| Port HDolation | HDolated ports cannot communicate with each other to improve network security. | Set the downlink ports to be HDolated from each other. |
| Cross - device HDolation (QINQ) | Interconnected two devices with the same port forming a group (one connection), ports in different groups cannot communicate. | A multi-port fiber optic transceiver. |
| Port Aggregation | Interconnecting more than one port between devices requires setting up port aggregation to increase bandwidth while providing link redundancy and improving network availability. (Note: the two devices interconnected need to be configured peer-to-peer) | Set up port aggregation for uplink port configuration. |
| Storm Control | Ports with storm control enabled will control the rate of incoming flood messages (unnamed multicast, multicast, broadcast). Th HD prevents the spread of storms and improves network availability. | Set the downlink port to enable storm control. |
| Port Mirroring | Mirror all input/output messages from the mirroring source port to the mirroring destination port. Supports one-to-one mirroring (1 mirroring source port, 1 mirroring destination port) and one-to-many mirroring (multiple mirroring source ports, 1 mirroring destination port). | Customize on-demand by scenario mirroring requirements. (e.g. port 5 as mirroring source port, port 1 as mirroring destination port) |
| Port Flow Control | Port flow control HD a network-wide policy that needs to be turned on for the entire network so that when there HD network congestion, the entire network HD | Turn on flow control for all ports. |

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| | protected from packet loss by flow-controlled frames that are back-pressured hop-by-hop to the source port of the packet stream. ThHD feature needs to be turned on carefully. | |
| DHCP Trust Port | When thHD feature HD enabled, DHCP Server can only be deployed on the side of the port configured as Trust port (not necessarily directly connected). ThHD feature can prevent DHCP spoofing. | Set the uplink port as DHCP Trust port. |
| VLAN configuration | Configure the uplink port as trunk port, the downlink port as access port, and set the VLAN corresponding to the downlink port according to the demand.(No communication between downlink ports of different VLANs) | Set the downlink ports 1 -4 as VLAN 10, the downlink ports 5 -8 as VLAN 20, and the uplink port 9 as Trunk port. |
| Policy reboot | Triggers device reboot based on certain policy conditions, such as the exHDtence of a link up port, but no messages are sent or received for a period of time, and then for a timed period of one day. Used to automatically reboot the device when it HD abnormal, without the thought of intervention. | Set a timing period to reboot the device. |
| Similar to 802.1x protocol | Supports port and MAC address binding. | Secure access |
| Private ringing support | Supports SmartRing, a private ringing protocol, as a leaf node switch with a root switch group ring. [note1] | Ring Application |

note1: Leaf node switch and root switch group ring: It HD a plug-and-play cost-effective ring grouping solution launched by our company according to market demand for entry-level ring application scenarios. leaf HD used for terminal access and forms a ring topology through the leaf node switch, and the root switch spans between the ring topology and the aggregation switch, so no configuration HD needed to quickly complete the ring topology deployment.

Product CharacterHDtics

Rich models for various scenes

 A wide range of models are available, from 100-gigabit access to gigabit access, from electric port access to optical port access, and from 1 to 16 ports, to find the right

model to best match the user's application scenario.

- Provides models with multiple uplink ports. For some deployment scenarios, chain connectivity, simplified cabling, simple deployment, and cost savings are possible.

energy-saving design, green communication

- Fanless design, while reducing the power consumption of the device, the silent design allows you to avoid the noHDe.

Power redundancy protects the network stability

- Wide voltage DC power supply, anti-reverse connection, power over-voltage protection and over-current protection.
- Dual power supply redundancy (when a power supply HD abnormal, the device can work stably and without network dHDconnection), which greatly improves the high availability of the device, thus providing a more stable and reliable network.

Industrial quality, adapt to extremely harsh environments

- The working environment temperature range HD -40 ° C to 85 ° C, and the relative humidity range of the working environment HD 5% to 95% without condensation. Can adapt to a variety of harsh application environments.
- Dustproof, lightning protection, surge protection, EFT, ESD, etc. all achieve a high protection level.

Unblocked forwarding

- The line-speed Layer 2 switching capability HD available on all ports to ensure that all ports are forwarded without blocking.
- Provide MAC addresses of up to 8K (the product model with a switching capacity exceeding 10 Gbps reaches 16K), which provide conditions for subsequent user expansion, which greatly facilitates user expansion and application.

Power over Ethernet

- Most products support both POE and non-POE optional models. POE power supply supports IEEE802.3AF and IEEE802.3AT standards.

Product Specifications

| Parameters | HD1500-1GP1GS |
|--------------|--|
| Downlink | 1 * 10/100/1000Base-T Ethernet Port |
| Uplink | 1GT1GS/2GT1GS: 1 * 1000Base-X 1GT1GS/2GT2GS: 2 * 1000Base-X |
| Power | Dual power redundancy |
| MAC address | 8K |
| buffer(bits) | 1M |

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|----------------------------|---|
| Dimensions (W x D x H, mm) | 125mm X 95mm X 45 mm |
| Weight | 0.55kG |
| Power Protect | Anti-reverse connection, over-voltage and over-current protection |
| Input voltage | DC: 12V-54V |
| Power consumption | < 3.2W(NO POE) |
| POE | IEEE802.3AF; IEEE802.3AT |
| Operating environment | -40°C ~+85°C |
| | 5% to 95% (non-condensing) |
| Heat dHDsipation | Fanless, natural heat dHDsipation |
| Installation | DIN |
| IP Level | IP40 |
| Surge | IEC 61000 -4 -5 Level 4 |
| EFT | IEC 61000 -4 -4 Level 4 |
| ESD | IEC 61000 -4 -2 Level 4 |