# Data Sheet HTS1200-2G24SFP

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# L2 Managed Optical fiber convergence 24*1000M SFP+2*10/100/1000 Uplink ports

## Product Appearance:

## Strong business processing capability

●Add a variety of new applications based on IPv6 to easily adapt to modern complex network management applications
●Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to their needs.
●Support voice VLAN, configure QoS parameters for voice data stream, improve the transmission priority of voice data stream and ensure the quality of communication.
●Support QoS, port based, 802.1p based and DSCP based priority modes to optimize bandwidth configuration.
●Supporting ACL, filtering data packets by configuring matching rules, processing operations and time permissions, and providing flexible security access control policies.
●Support IGMP V1 / V2 multicast protocol and IGMP snooping to meet the requirements of multi terminal HD video monitoring and video conference access.
●Support multicast VLAN and multicast filtering transmit data efficiently, save network bandwidth and reduce network load.
●Support port monitoring, copy a packet of the monitored port to the monitoring port to realize network monitoring.
●Support the management and maintenance of equipment through web interface.
●Support port convergence, effectively increase link bandwidth, realize link backup and improve link reliability.

## Security Protection

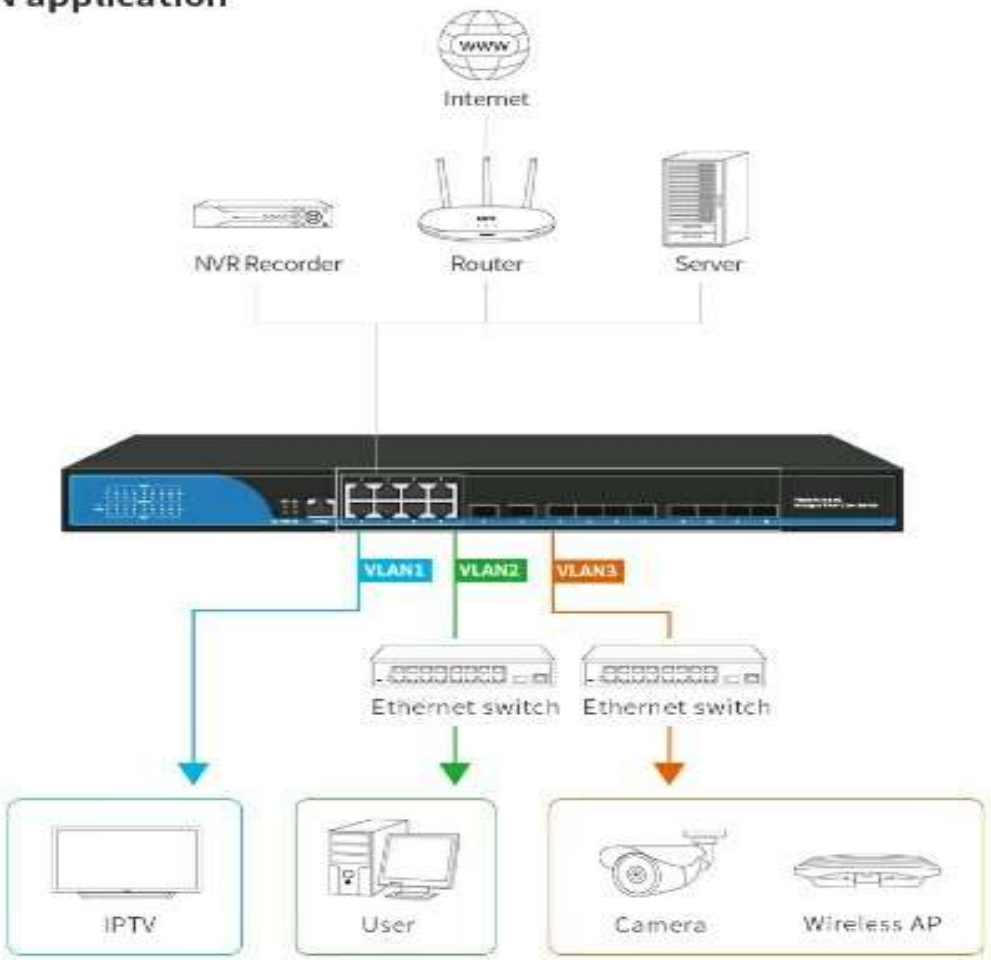
●Support STP / RSTP / MSTP spanning tree protocol, eliminate layer-2 loop and realize link backup.
●Support the spanning tree security function to prevent the devices in the spanning tree network from various forms of malicious attacks.
●Support static aggregation and dynamic aggregation, effectively increase link bandwidth, realize load balancing and link backup, and improve link reliability.

## Easy Operation And Maintenance

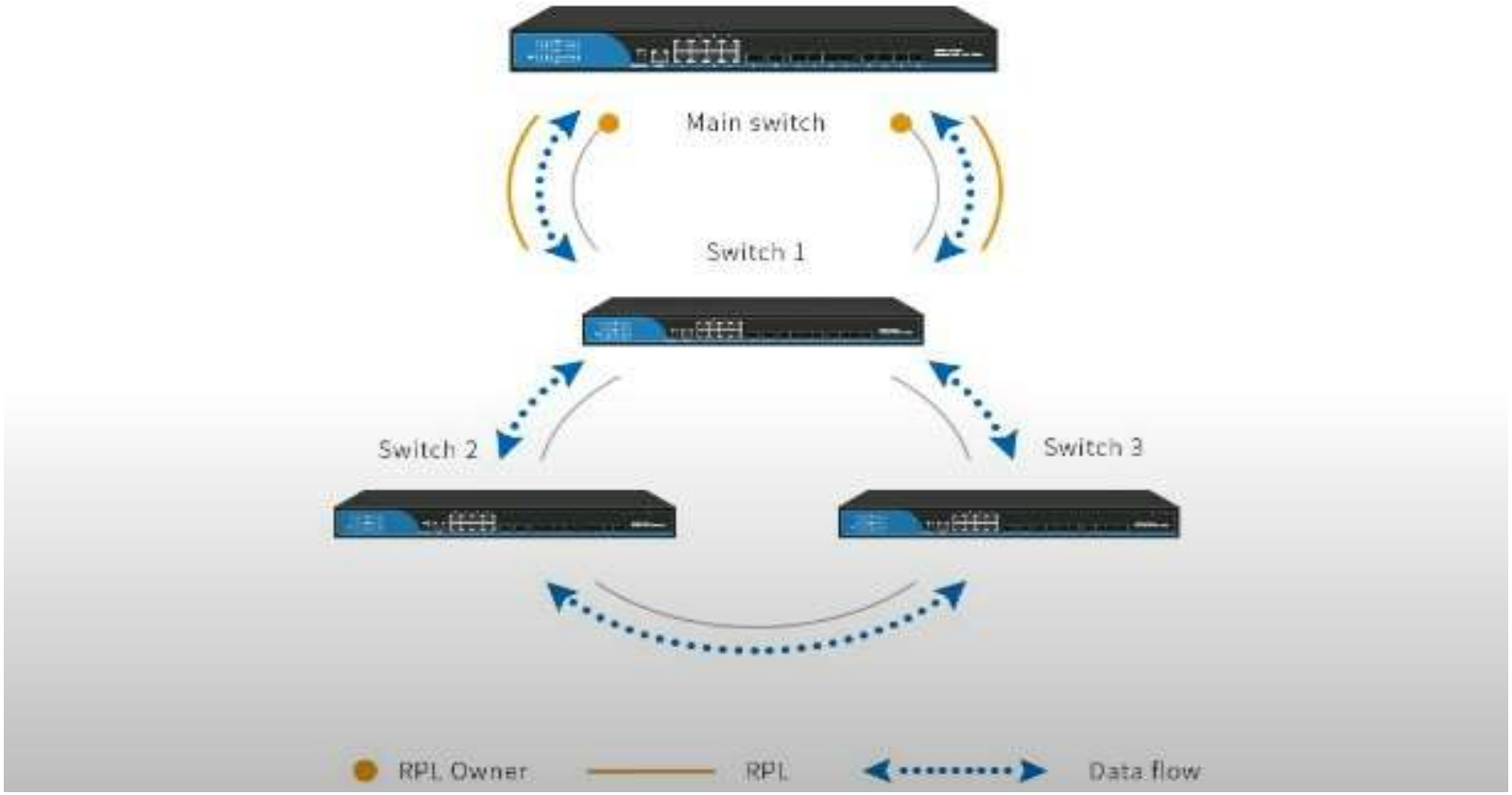
Support web network management, CLI command line (console, telnet), SNMP (V1 / V2 / V3) and other diversified management and maintenance methods.
Support the encryption methods such as HTTPS, SSL V3, tlsv1, sshv1 / V2, and make the management more secure.
Support RMON, system log, port traffic statistics, facilitate network optimization and transformation.
The user can know the working status of the switch through the power indicator (PWR), port status indicator and system status indicator (sys).


Enterprise factory network
Diskless booting
Multimedia classroom
Monitoring
Wireless network

## 1.VLAN application



## 2.Loop network application



| Model | HTS1200-2G24SFP |
| --- | --- |
| Fixed port | 2* 10/100/1000M electrical ports<br>24* Gigabit SFP ports<br>1* Console Port |
| Reset button | 1 |
| Exchange capacity | 56/128G |
| Packet forwarding rate | 40.32Mpps |
| Operating temperature | -10~50°C |
| storage temperature | -40~70°C |
| Working humidity | 10% to 90% non-condensing |
| Storage humidity | 5% to 95% non-condensing |
| physical dimension | 440mm*227mm*45mm |
| Total Weight | 2.26kg/2.9kg |
| Input voltage | Built-in power AC 100~240V 50/60HZ |
| Machine power consumption | <15W |
| Certificate | CE mark, Commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS |

## Features:

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| Features | L2+ Switch |
| Supported switch chips | RTL838X |
| Number of Fiber Gigabit ports | Maximum 24 ports |
| Port Shutdown | Support |
| Port Speed | Support auto negotiate, full-1000, full-100, half-100, full-10, half-10 |
| Flow Control | support full-duplex IEEE 802.3x, half-duplex back pressure |
| Storm Control | Supports rate limit for broadcast, multicast, and DLF packets |
| Storm Constrain | Support the detection of broadcast packets, multicast packets,<br>or unicast packets on the port, shutdown the port if the rate is over the threshold. |
| Port Mirror | Support |
| Port Rate Limit | Support port ingress and egress rate limit |
| Link Aggregation | Support manual link aggregation<br>Support LACP dynamic link aggregation<br>Supports up to 8 aggregation groups, each group up to 8 ports<br>Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy |
| Port Isolate | Support |
| Jumbo Frame | Support up to 16KB packet |
| Cable Distance Diag | Support |
| Redundant Port | Support |

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| The DDM of fiber ports | Support |
| **MAC** | |
| MAC Table Capacity | 8K |
| MAC Table Management | Support |
| Forwarding mode | Support IVL forwarding mode |
| Static MAC Address | Support |
| MAC Address Binding | Support |
| MAC Address Filtering | Support |
| MAC Learning Control | Control the MAC learning based on port |
| **VLAN** | |
| Number of VLANs | 4K |
| 802.1q-based VLAN | Support |
| MAC-based VLAN | Support |
| IP-based VLAN | Support |
| Protocol-based VLAN | Support |
| PVLAN | Support |
| Voice VLAN | Support |
| VLAN Mapping | Support 1:1 mapping |
| QinQ | Support basic QinQ<br>Support flexible QinQ |
| **Reliability** | |
| Spanning Tree Protocol | Support STP/RSTP/MSTP |

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| Port Loop Detection | Support |
| EAPS | Support RFC3619 |
| ERPS | Support G.8032/Y.1344 |
| LLDP | Support LLDP & LLDP-MED |
| UDLD | Fully compatible with CISCO's UDLD protocol |
| **IP** | |
| ARP | Support static and dynamic ARP |
| IP Route | Support 0.0.0.0/0 route and other static route, but can’ t support L3 forwarding |
| VLAN Interface | Support 32 VLAN interfaces |
| **Multicast** | |
| Static Multicast MAC Address | Support |
| IGMP SNOOPING | Support |
| MLD SNOOPING | Support |
| MVR | Support |
| GMRP | Support |
| **ACL** | |
| Standard IP-based ACL | Support |
| Extended IP based ACL | Support |
| MAC IP-based ACL | Support |
| MAC ARP-based ACL | Support |
| IPv6-based ACL | Support |

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| ACL Port Filtering | Support |
| Time-based ACL | Support |
| **QoS** | |
| Port Queue Number | 8 |
| Port Queue Scheduling Mode | Support WRR, SP, WFQ |
| Port-based Classification | Support |
| 802.1p-based Classification | Support |
| DSCP-based Classification | Support |
| ACL-based Classification | Support |
| QoS Policy | Support packets mapping to queue<br>Support COS or DSCP Remarking<br>Support rate limits of data flow<br>Support data flow statistics<br>Support mirroring of data flow |
| **DHCP** | |
| DHCPv4 Client | Support |
| DHCPv6 Client | Support |
| DHCP Snooping | Support |
| DHCP Relay | Support |
| DHCP Server | Support |
| DHCP option 82 | Support |

| Management | |
|---|---|
| CLI Management | Support Console, TELNET and SSH<br>Support multiple TELNET connections based on IPv4 and IPv6<br>Support multiple SSH connections based on IPv4 and IPv6<br>Support running configuration rollback<br>Support ZTP (Zero Touch Configuration) |
| WEB Management | Support |
| SNMP Management | Support SNMP v1, v2c, v3<br>Support SNMP TRAP<br>Support lots of standard and private MIBs<br>Support SNMP based on IPv4 and IPv6 |
| User Management | Support multiple user management |
| TACACS+ | support switch authentication via TACACS+ server remote username and password<br>Support password encryption in PAP and CHAP mode<br>Support TACACS+ server to authorize the switch’ s commands<br>Support TACACS+ based on IPv4 and IPv6 |
| Log Management | Support local log management<br>Support SYSLOG based on IPv4 and IPv6 |
| RMON | Support RMON 1, 2, 3 and 9 groups |
| Cluster Management | Support NDP<br>Support NTDP<br>Support manual and automatic joining of cluster groups<br>Support cluster unified management |

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| OAM | Support 802.3ah<br>Support 802.1ag |
| Configuration File | Support TFTP transmission based IPv4 and IPv6<br>Support SFTP transmission based IPv4 and IPv6<br>Support SFTP Client and SFTP Server |
| Upgrade software | Support TFTP transmission based IPv4 and IPv6<br>Support SFTP transmission based IPv4 and IPv6<br>Support SFTP Client and SFTP Server |
| Clock Management | Support local clock management<br>Support SNTP based IPv4 and IPv6 |
| **Security** | |
| Switch Management Security | Support enabling and disabling TELNET, SSH, WEB and SNMP services<br>Support TELNET, SSH, WEB and SNMP services to bind to standard IP ACLs<br>Support for limiting the number of TELNET connections |
| CPU Protection | The switch's own security protection prevents large data streams from attacking the switch itself. |
| AAA | Support 802.1x<br>Support RADIUS<br>Supports authentication, authorization, and accounting through RADIUS server<br>Support port-based and MAC-based 802.1x<br>Support 802.1x guest VLAN |
| IP MAC Binding | Support static configuration of IP, MAC and port binding |
| DHCP SNOOPING | Support dynamic ARP binding to prevent ARP spoofing |

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| | Support dynamic IP, MAC and port binding<br>Support fixed port to connect to DHCP server to prevent private connection to DHCP server |
| Prevent ARP Spoofing | Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing.<br>Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing. |
| **IPv6** | |
| IPv4/IPv6 Dual Protocol Stack | Support |
| IPv6 Address | Support manual address configuration, stateless address auto-configuration and stateful address configuration obtained through DHCPv6 client |
| IPv6 Neighbor Discovery | Support |
| ICMPv6 | Support |
| IPv6 Path MTU Discovery | Support |
| **Debugging** | |
| PING | Support |
| PING6 | Support |
| TRACEROUTE | Support |
| TELNET Client | Support TELNET client based IPv4 and IPv6 |
| SSH Client | Support SSH client based IPv4 and IPv6 |
| TWAMP | Support TWAMP server and session-reflector |

## Solution Diagram: