

XS52HVS

48 10Base-T/100Base-TX/1000Base T ports and 4 1/10GbE dual speed SFP+ ports switch



Product Highlight

Performance

- 48 10Base-T/100Base-TX/1000Base-T with 4 1/10GbE dual speed SFP+ ports in 1 RU
- 176 gigabit per second
- 131 million packets per second

Layer 2 features

- 3965 configurable VLANs
- 12K jumbo frame

Security

- Secured STP features
- L2/L3/L4 security
- Storm control

Management

- Industrial command-line interface
- Dual images
- Web-based GUI (HTTP/HTTPS)
- sFlow
- IPv6 management

Layer 3 features

- RIP v1/v2
- OSPF
- FCMP
- IGMP v1/v2/v3
- PIM-DM/SM

IPv6 support

- RIPng
- OSPFv3
- MLD v1/v2
- PIM-DM6/SM6

Overview

The Xenya XS52HVS is a high performance layer 2/3/4 Ethernet switch with 48 10Base-T/100Base-TX/1000Base-T ports and 4 dual speed 1GbE/10GbE SFP+ ports in a compact rack unit size.

Simplicity

The Xenya XS52HVS can be managed through industry-standard command-line Interface (CLI) which reduces the training and operating costs. A user friendly Web GUI is provided via a standard Web browser to manage. The XS52HVS also supports Simple Network Management Protocol (SNMP) both from standard MIB and private MIB for network administrator to easily configure, monitor, and manage remotely. With the evolution from IPv4 to IPv6, The XS52HVS is a IPv6 integrated management device.

High Availability

The Xenya XS52HVS is designed for high availability from both hardware and software perspective. The key features include:

- Out-of-band management supported
- 802.1D, 802.1w, and 802.1s supported
- Up to 8 ports per link aggregation group (LACP) and up to 64 groups
- Up to 32 paths ECMP routing for load balancing and redundancy
- Virtual Router Redundancy Protocol supported

High-Performance L2/L3 access deployments

With the compact 1U form factor, high density 48 gigabit ports and 4 dual speed 1GbE/10GbE uplink ports, the Xenya XS52HVS is ideal for enterprise campus application.

The 176Gbps switching capacity and 131Mpps forwarding rate ensures high bandwidth connectivity to the aggregation or core layers and low power consumption ensure XS52HVS to be a powerful solution to aggregate data traffic and high-performance servers.

The 4-port 10GbE density in a 1U height switch provides near 1:1 subscription ratio throughout the network. This brings the benefits to organizations to deploy highly utilized networks and avoid congestion during peak hours.

Advanced IPv4 and IPv6 routing

The Xenya XS52HVS is a fully layer 2 and layer 3 routing switch that supports advanced IPv4 and IPv6 routing features such as RIP v1/v2, OSPF, ECMP, RIPng and OSPFv3. The multicast routing features for IGMP v1/v2/v3, DVMRP, PIM-DM/SM, MLD v1/v2 and PIM-DM6/SM6 are all supported in the XS52HVS.



Networking XS52HVS specifications

Physical ports

- 48 10Base-T/100Base-TX/1000Base-T ports
- 4 1GbE/10GbE dual speed SFP+ ports
- 1 RJ-45 out-of-band management port (10/100/1000)
- 1 RJ-45 console port

Performance

- Switching capacity: 176Gbps
- Forwarding rate: 131Mpps
- Memory: 512MB
- Flash: 32MB
- MAC: 32K
- Packet buffer: 4MB
- Jumbo frame: 12K

L2 features

- Auto-negotiation for port speed and duplex
- Flow control: IEEE 802.3x / backpressure
- Switching mode: store-andforward
- Spanning Tree Protocol:
- 802.1D, 802.1w, and 802.1s
- Spanning Tree Fast Forwarding
- Edge port
- Loop guard
- BPDU filter/guard
- Auto Edge
- TCN guard
- Root guard
- VLANs
 - IEEE 802.1Q tagged based
 - Port-based (up to 4k VLANs; 3965 user configurable VLANs)
 - GVRP/GMRP
 - 802.1v protocol VLAN
- Voice VLAN
- MAC-based VLAN
- IP-subnet VLAN
- QinQ
- VTP v1/v2
- Private VLAN
- Storm control
- Broadcast
- Unknown multicast
- Unknown unicast
- IGMP snooping
 - IGMP snooping v1/v2/v3
 - IGMP v1/v2 querier
 - IGMP immediate leave
- Ling Aggregation
- 802.3ad with LACP
- Cisco EtherChannel Like
- Unicast/Multicast traffic balance over trunking port (dst-ip, dstmac, src-dst-ip, src-dst-mac, src-ip, src-mac)
- Link state
- Port backup

- Queues per port: 8 queues
- QoS queue management using Weighted Round Robin (WRR), Strict Priority (SP) and hybrid (WRR+SP)

- COS: 802.1p, IP Precedence, and DSCP
- DiffServ
- Port rate limit

Security

- Static and dynamic port security (MAC-based)
- 802.1x: port-based, MAC-based, auto VLAN assignment, guest VLAN, unauthenticated VLAN
- ACL: L2/L3/L4
- IPv6 ACL: L3/L4
- RADIUS: authentication and accounting (up to 32servers)
- TACACS+: authentication (up to 5 servers)
- HTTPS (AES 128-cbc, 3ES-cbc, Blowfish-cbc)
- SSH v1.5/v2.0 (AES 128-cbc, 3ES-cbc, Blowfish-cbc)
- User name and password: local authentication and remote authentication via RADIUS/TACACS+
- Denial of Service control
- Management IP filtering (SNMP/Web/Telnet/SSH)
- MAC filtering
- IP Source Guard
- Dynamic ARP inspection (DAI)
- DHCP snooping

Management

- Industrial command-line interface
- CLI filterina
- Telnet/SSH
- HTTP/HTTPs
- Software download/upload: TFTP/Xmodem/FTP
- Configuration download/upload: TFTP/Xmodem/FTP
- Dual image backup supported
- SNMP v1/v2c/v3
- RMON 1, 2, 3 and 9
- BOOTP: client/relay
- DHCP: client/relay/option 82
- Event/error log: local flash and remote server via system log (RFC3164)
- DNS: client/relay
- SNTP
- LLDP (802.1ab, Link Layer -Discovery Protocol)
- CDP (Cisco Discovery Protocol) version 2
- Port mirroring: one to one and many to one
- sFlow (RFC3176)
- IPv6 management:
- IPv4/IPv6 Dual Stack
- ICMPv6
- ICMPv6 redirect
- IPv6 Path MTU Discovery
- IPv6 Neighbor Discovery
- stateless auto-configuration
- manual configuration - DHCPv6 (client)
- SNMP/HTTP/SSH/Telnet over
- IPv6

- IPv6 DNS resolver
- IPv6 RADIUS/TACACS+ support
- IPv6 Syslog supportIPv6 SNTP
- IPv6 TFTP
- IPv6 Ping

Layer 3 features

- ARP (static: 128 and dynamic -3968)
- Proxy ARP
- Local proxy ARP
- IRDP
- Static route
- Unicast Routing: RIP v1/v2, SPF
- ECMP
- Multicast Routing: IGMP 1/v2/v3, DVMRP, PIM-DM/-SM
- IGMP proxy
- VRRP

IPv6 Layer 3 features

- Static route
- Unicast Routing: RIPng and OSPFv3
- Multicast Routing: MLD v1/v2, PIM-DM6/-SM6

Mechanical

- Dimension (HxWxD): 42.4x440x283.6 mm
- Weight: 3.9kg (NET)

Environmental specifications

- Operating temperature: 0~45□C
- Operating humidity: 90% maximum relative humidity

Safety

- UL 60950-1 (2nd Ed.)
- CSA C22.2 60950-1-07 (2nd Ed.)
- IEC 60950-1 (2005) - EN 60950-1 (2006)

- FCC 47CFR, Part 15 Class A
- ICES-003 Class A
- EN 55022 Class A
- CISPR 22 Class A
- EN 55024 - EN 61000-3-2
- EN 61000-3-3
- EN 300 386 (2008) - VCCI Class A - CCC

Environmental

 Reduction of Hazardous Substances (RoHS) 6

Order information

- XS52HVS

Warranty

- Limited lifetime warranty

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