

Product Highlight

Performance

- 40 I/10GBase-T and 8 I/10GbE SFP+ ports in IRU
- 960 gigabits per second
- 714 million packets per second

Robust hardware

- Redundant and hotswappable power supply
- Out-of-band management port
- 4 fixed fans

Management

- CLI/Web/SNMP
- o sFlow
- o **IPv6**
- o Auto-Installation

Layer 3 features

- o RIP v1/v2
- OSPF/ECMP
- o IGMP v1/v2/v3
- o PIM-DM/SM

IPv6 support

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

Data Center

application

- Multi-Chassis LAG (MLAG)
- VMTracer
- o CN (802. I Qau)
- o ETS (802.1 Qaz)
- o PFC (802.1Qbb)
- DCBX (802.1Qaz)
- FIP snooping

A powerful Top-of-Rack Switch for Data Center and Cloud Computing LY3

Overview

The Xenya LY3 switch is a high performance and low latency layer 2/3/4 Ethernet switch with 40 I/10GBase-T and 8 I/10GBase-X SFP+ ports in a compact rack unit size. The 40 I0GBase-T ports are backwards compatible with 10/100/1000-Mbps Ethernet networks. The 8 SFP+ ports can aggregate bandwidth up to the core switch. With the energy saving requirements, LY3 is designed with high power efficiency to save OPEX.

Simplicity

The Xenya LY3 switch 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 LY3 also supports Simple Network Management Protocol (SNMP) both from standard MIB and private MIB for network administrator to easily configure, monitor, and manage remotely. The Auto-Installation feature implemented in the LY3 helps centralized management to simplify deployment of a truly plug-and-play experience. With the evolution from IPv4 to IPv6, The LY3 is a IPv6 integrated management device.

High Availability

The Xenya LY3 is designed for high availability from both hardware and software perspective. The key features include:

- I+I hot-swappable power supplies
- $\circ~$ Out-of-band management supported
- \circ $\,$ 802.1D, 802.1w, and 802.1s supported $\,$
- Up to 8 ports per link aggregation group (LACP) and up to 64 groups
- Multi-chassis LAG for preventing the risks of single point failure
- 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 IU form factor, high density 40 I/I0GBase-T and 8 I/I0GBase-X SFP+ ports in the front panel, front to back or back to front airflow design, the Xenya LY3 is ideal for topof-rack deployments in high-performance, highly demanding data centers. The 960 gigabits per second switching capacity and 714Mpps forwarding rate with low power consumption ensure LY3 to be a powerful solution to aggregate high-performance servers in the data center.

Advanced IPv4 and IPv6 routing

The Xenya LY3 is a full layer 2 and layer 3 routing switch that supports advanced IPv4 and IPv6 routing features such as RIP v1/v2, OSPF/ECMP, RIPng and OSFPv3. 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 LY3.

Datacenter application

The Xenya LY3 is an IEEE DCB-based switch delivering a high-performance solution to integrate server edge access. The key features include:

- Congestion Notification (CN, 802.1Qau)
- Enhanced Transmission Selection (ETS, 802.1Qaz)
- Priority-based Flow Control (PFC, 802.1Qbb)
- FCoE Initiation Protocol (FIP) snooping

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LY3 specifications

Physical ports

- 40 I/I0GBase-T and 8 I/I0GBase-X 0
- SFP+ ports 0
- I RI-45 out-of-band management port 0
- (10/100/1000) 0
- I RJ-45 console port 0
- I USB2.0 port 0

Performance

- Switching capacity: 960Gbps 0
- Forwarding rate: 714Mpps 0
- Memory: 2GB 0
- Flash: 64MB 0
- MAC: 128K 0
- Packet buffer: 9MB 0
- Jumbo frame: 12K 0

L2 features

- Auto-negotiation for port speed and 0
- 0 duplex
- Flow control: IEEE 802.3x & back-0
- pressure 0
- Switching mode: store-and-forward 0
- 0 Spanning Tree Protocol:
- 802.1D, 802.1w, & 802.1s
 - Spanning Tree Fast Forwarding
 - Edge port
 - Loop guard
 - BPDU filter/guard
 - Auto Edge
 - TCN guard
 - Root guard
- VLANs 0
 - IEEE 802.1Q tagged based dK
 - Port-based (up to 4094 VLANs)
 - Private VLAN
 - GARP/GVRP/GMRP
 - 802.1v protocol VLAN
 - Voice VLAN
 - MAC-based VLAN
 - IP-subnet VLAN
 - QinQ
 - VTP vI/v2

0

- Storm control
 - Broadcast
 - Unknown multicast
 - Unknown unicast
- IGMP snooping 0
 - IGMP snooping v1/v2/v3
 - IGMP v1/v2 querier
 - IGMP immediate leave
- Link Aggregation
 - 802.3ad with LACP
 - Cisco EtherChannel Like
 - Unicast/Multicast traffic balance over trunking port (dst-ip, dst-mac, src-dst- ip, src-dst-mac, src-ip, src-mac)
- 0 Multi-chassis LAG (MLAG)
- Link state 0
- Port backup

QoS

- Priority queues: 8 queues 0
- Scheduling for priority queue: WRR, 0 Strict and hybrid (WRR+Strict)
- COS: 802. Ip, IP Precedence, & DSCP
- DiffServ 0
- Port rate limit 0
- Auto VoIP 0
- iSCSI optimization 0

LY3-150309121000

Security

Static and dynamic port security (MAC-

based)

802.1x: port-based, MAC-based, auto 0 VLAN assignment, QoS assignment, guest VLAN, unauthenticated VLAN

Multicast Routing: IGMP v1/v2/v3, DVMRP, PIM-DM/-SM

Unicast Routing: RIPng & OSPFv3

Enhanced Transmission Selection

Data Center Bridging Extension

Priority-based Flow Control

VMware vSphere support

VM Adaptive Segmentation

Ethernet Virtual Bridging (EVB, IEEE 02.1

Dimension (HxWxD): 42.8x435x393.7 mm

VM Auto Discovery

Ethernet Virtual Bridge

Weight: 7.9kg(NET)

relative humidity

UL 60950-1 (2nd Ed.)

IEC 60950-1 (2005)

EN 60950-1 (2006)

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

CCC 0

Environmental

(RoHS) 6

Order information

LY3 (Front to Back)

info@xenya.si

LY3 (Back to Front)

http://www.xenya.si

Limited lifetime warranty

Environmental specifications

Operating temperature: 0~45 □ C

Operating humidity: 90% maximum

Power consumption: 376W (full loading)

CSA C22.2 60950-1-07 (2nd Ed.)

FCC 47CFR, Part 15 Class A

Reduction of Hazardous Substances

Multicast Routing: MLD v1/v2, PIM-DM6/-

VRRP

SM6

IPv6 Layer 3 features

DHCPv6: relay

Data Center features

FIP snooping

VM Tracer features

VM host view

Obg)

Mechanical

Electrical

Safety

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

Warranty

EMC

Congestion Notification

Static route

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0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

0

- ACL: L2/L3/L4 0
- IPv6 ACL: L3/L4 0
- RADIUS: authentication and accounting 0 (up to 32 servers)
- TACACS+: authentication (up to 5 0 servers)
- HTTPS and SSL (AES 128-cbc, 3ES-0 cbc, Blowfish-cbc)
- SSH 1.5/v2.0 (AES 128-cbc, 3ES-cbc, 0 Blowfish-cbc)
- User name and password: local 0 Authentication and remote authentication via RADIUS/TACACS+
- Denial of Service control 0
- Management IP filtering 0
- (SNMP/Web/Telnet/SSH) MAC filtering 0
- IP Source Guard 0
- Dynamic ARP inspection (DAI) 0
- DHCP snooping 0

Management

- Industrial command-line interface 0
- CLI filtering 0
- Telnet/SSH 0
- 0 Software download/upload:
- TFTP/Xmodem/FTP Configuration download/upload: 0
- TFTP/Xmodem/FTP
- 0 Dual image supported SNMP v1/v2c/v3
- 0
- RMON 1, 2, 3 & 9 0
- BOOTP: client/relay 0
- DHCP: client/relay/option 82 0 Auto-Installation 0
- 0
- Event/error log: local flash and remote Server via system log (RFC3164) DNS: client/relay 0
- NTP/SNTP 0

0

- LLDP (802.1ab, Link Layer Discovery 0 Protocol)
- 0

IPv6 management:

- ICMPv6 redirect

- DHCPv6 (client)

- IPv6 DNS resolver

IPv6 Syslog support

- IPv6 SNTP & NTP

- IPv6 TFTP

Layer 3 features

Proxy ARP

Static route

Local proxy ARP

- IPv6 Ping

CIDR

IRDP 0

ECMP

0

0

0

0

0

0

0

- ICMPv6

sFlow (RFC 3176)

- IPv4/IPv6 Dual Stack

- IPv6 Path MTU Discovery

- IPv6 Neighbor Discovery

- stateless auto-configuration - manual configuration

- SNMP/HTTP/SSH/Telnet over IPv6

- IPv6 RADIUS/TACACS+ support

ARP (static: 128 & dynamic 3968)

Unicast Routing: RIP v1/v2, OSPF

CDP (Cisco Discovery Protocol) vers. 2 Port mirroring: one to one & many to one 0