

The SwitchLinX NS-SW1524 & NS-SW1548 Ethernet Managed Switch is a series of energy-efficient, cost-effective 1GbE switches designed to extend enterprise features to small and mid-sized businesses. NS-SW1524 switches utilize a Layer 3 Lite feature set and offer high-availability for smaller managed networks.



Applications



Corporate
Education
Command & Control Centers
Telemedicine & Healthcare
Hospitality & Entertainment
Houses of Worship
Transportation

Features



- + 24 port high performance 10/100/1000 switch
- + Suitable for compressed and uncompressed audio and video streaming projects
- + Auto-negotiation for speed, duplex mode and flow control
- + Port mirroring
- + Broadcast storm control
- + Port Profile support
- + Designed to fit in a 19" rack and occupy only 1RU of space
- + Stackable - Up to 4 Switches
- + Support for 512 Multicast Addresses
- + JUMBO Frame Support for low latency streams
- + Pre-configured (No additional configuration required)

Functional Specifications

Port Attributes

24 10/100/1000BASE-T Auto-sensing Gigabit Ethernet Switching Ports

2 SFP+ (10Gb/1Gb) ports

2 Stacking Ports (HDMI) – 10Gb per port, full duplex, 40Gb total per switch

USB Port – Allows for file import/export locally

Auto-negotiation for speed, duplex mode and flow control

Auto MDI/MDIX

Port Mirroring

Broadcast Storm Control

Port Profile Support

Performance

MAC addresses: 32K

Static routes: 256 (IPv4)/128 (IPv6)

Dynamic routes: 256 (IPv4)

Switch fabric capacity: 172Gbps (SW1524)

(full duplex) 220Gbps (SW2048)

Forwarding rate: 128Mpps (SW1524)

164Mpps (SW2048)

Link aggregation: 128 LAG groups, 144 dynamic ports

per stack, 8 member ports per LAG
Priority queues per port: 8

Availability

Spanning Tree (IEEE 802.1D)

Multiple Spanning Tree (MSTP) and Rapid Spanning Tree (IEEE 802.1w) with Fast Link Support

Dual Image Support

External redundant power support

Cable diagnostics via Virtual Cable Tester

VLAN

VLAN support for tagging and port-based as per IEEE 802.1Q; protocol-based VLANs

Up to 4000 VLANs supported

Dynamic VLAN with GVRP support

Protocol-based VLANs

802.1x Auto VLAN

Multicast

Dynamic Multicast Support - up to 256 Multicast groups supported in IGMP Snooping or Static Multicast

IGMP Snooping v1/v2

IGMP Snooping Querier

Security

Up to 3,000 ACLs and up to 3,000 ACEs

Time Controlled ACLs

ACL Logging

Switch access password protection

Optional strong password enforcement

User-definable settings for enabling or disabling Web, SSH, Telnet, SSL management access

Port-based MAC Address alert and lock-down

IP Address filtering for management access via Telnet, HTTP, HTTPS/SSL, SSH and SNMP

RADIUS and TACACS+ remote authentication for switch management access

SSLv3 and SSHv2 encryption for switch management traffic

DHCP Snooping

Management access filtering via Management Access Profiles

IEEE 802.1x based edge

authentication, 802.1x Monitor Mode (logging without enforcement)

Web-based Management Interface

Industry-standard CLI accessible via Telnet, SSH, or local console (RJ45 Yost)

Robust HTTP GUI Management sFlow

Management IP Address Conflict Notification

SNMPv1 and SNMP v2c supported

4 RMON groups supported (history, statistics, alarms and events)

HTTP and TFTP transfers of firmware and configuration files

Dual Firmware images on-board

Multiple Configuration file upload/download supported

Statistics for error monitoring and performance optimization including port summary tables

BootP/DHCP IP address management supported

SNTP Support

Layer 3 Traceroute

Telnet Client

Syslog remote logging capabilities

Other Switching

iSCSI optimization and monitoring

Link Aggregation with support for up to 8 aggregated links per switch and up to 8 member ports per aggregated link (IEEE 802.3ad)

LACP support (IEEE 802.3ad)

Supports jumbo frames up to 10K bytes

IPv6 Support

IPv4 Only Mode – maximizes tables for IPv4 networks)

Chassis

Size (1RU, H x W x D): 1.7 in x 17.3 in x 10.1 in (43.2 mm x 440.0

mm x 257.0 mm) (SW1524 and SW2048)

1.7 in x 17.3 in x 15.2 in (43.2 mm x 440.0 mm x 387.0 mm)

Approximate weight: 6.6lbs/3kg (SW1524), 12.8lbs/5.8kg

8.8lbs/4kg (SW2048), 15.4lbs/7kg

Rack mounting kit with 2 mounting brackets, bolts and cage nuts

Environmental

Operating Temperature: 32° to 113°F (0° to 45°C)

Storage Temperature: –40° to 149°F (–40° to 65°C)

Operating Relative Humidity: 10% to 95% Non-condensing

Hardware

1GB of CPU SDRAM

256MB of Flash Memory

12MB Packet Buffer Memory

Compliance

Restriction of use of certain Hazardous Substances (RoHS) Compliant

Part Number

NS-SW1524

NS-SW1548

ClearOne Contacts

North America

Tel: 801-975-7200
Toll Free: 800-945-7730
Sales: 800-707-6994
Fax: 801-977-0087
sales@clearone.com

Europe & Oceania

Tel: +44 (0) 1189 036 053
global@clearone.com

Asia Pacific

Tel: +852 3590 4526
global@clearone.com

Latin America

Tel: 801-974-3621
global@clearone.com

Middle East

Tel: +852 3590 4526
global@clearone.com