

The SwitchLinX NS-SW2024 & NS-SW2048 Ethernet Managed Switches provide high performance network switching for the VIEW system. The switch is optimized to meet the various network infrastructure needs of a StreamNet™ system.



## Applications



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

## Features



- + 48 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 occupies only 1RU of space
- + Stackable - Up to 12 Switches
- + Support for 1024 Multicast addresses
- + JUMBO Frame support for low latency streams
- + Pre-configured (No additional configuration required)

## Functional Specifications

### Port Attributes

48 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

Switch Fabric Capacity 176.0 GBps

Forwarding Rate 100.2 Mpps

Up to 16,000 MAC Addresses

### 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 available

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): 1.7 in x 17.3 in x 10.1 in (43.5 mm x 440.0 mm x 257.0

mm) (H x W x D) (SW2024 and SW2048)

1.7 in x 17.3 in x 15.2 in (43.5 mm x 440.0 mm x 387.0 mm)

(H x W x D) (SW2024 and SW2048)

Approximate weight: 8.1351lbs/3.69kg (SW2024),

14.0435lbs/6.37kg (SW2024), 8.9287lbs/4.05kg (SW2048),

14.9914lbs/6.8kg (SW2048)

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

### Environmental

Power supply efficiency: 80% or better in all operating modes

Max. thermal output (BTU/hr):

117.44 (SW2024), 3,113.33,

167.7 (SW2048), 6069.8

Power consumption max (watts):

42.9 (SW2024), 913, 53.9

(SW2048), 1738

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

Operating humidity: 95%

Storage temperature: -40° to 149°F (-40° to 65°C)

Storage relative humidity: 85%

### Hardware

1GB of CPU SDRAM

16MB of Flash Memory

12MB Packet Buffer Memory

### Compliance

Restriction of use of certain

Hazardous Substances

(RoHS) Compliant

### Part Number

NS-SW2024

NS-SW2048

## 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