

DESIGNED IN INDIA, MADE IN INDIA, INNOVATING FOR THE WORLD

NSP 48 PORT CAMPUS L2/L3 SWITCHES

Powered by NiOS™

Nivetti's NSP series switching platform offers a spectrum of products which cover the access and distribution switching requirements across market segments



Powered by the
revolutionary NiOS™

Network Operating System
which caters to the new age
requirements of security,
scalability and extensibility

High capacity non-blocking,
low latency switch fabric

Option for hot swap
redundant power supply for
high-availability

IOTWiz™ set of features for
next generation of
connected devices

Stacking option to stack up
to 12 switches providing
unparalleled scalability

48 Gigabit port with 1G/10G
optical uplink options

NIVETTI SYSTEMS

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www.nivettisystems.com



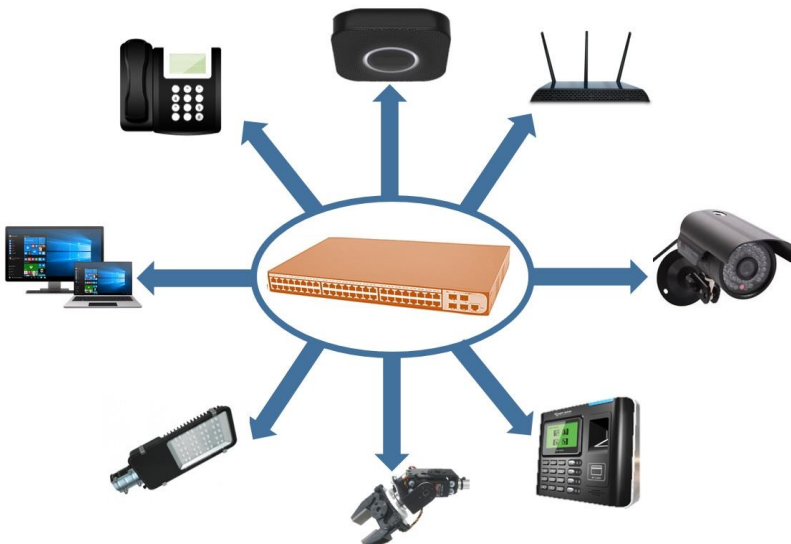
NSP™ 48+4 port Switch

The digital revolution is the new growth engine for the global economy. Even the smallest businesses around the remotest corners of the world are getting connected and reaping benefits of digital connectivity.

Efficiency in consumption and operations is no longer just a cost cutting corporate measure but a question of existence and sustainability of the human race. Digital connectivity is sitting at the center of this offering solutions like smart cities and e-governance to make us a more efficient society. Governments across the world are planning to deliver e-governance and citizen services over digital media to reach citizens located in even the remotest areas.

Nivetti's NSP™ series access and distribution switches, based on the next generation switching hardware platform offer higher throughput, lower power consumption and unmatched scalability. Powered by Nivetti's revolutionary NiOS™ Network operating which provides a host of L2/L3 features along with new age manageability features that make realizing and maintaining any network a breeze.

NSP™ series access & distribution switches come with 8, 16, 24 and 48 port Gigabit Ethernet option with non-blocking architecture. NSP switches offer 1G and 10G optical uplink connectivity options . The dual redundant power supply option enables uninterrupted network connectivity for crucial compute, access control and surveillance equipment.



Software programmable
north bound API interface for
Software defined networking

Support for low power mode
& automated shutdown of
port in non-office hours for
power savings

Rich QoS feature set to
ensure low latency and
prioritization for real-time
services like voice and video

802.1x based port
authentication and dynamic
VLAN allocation

Highly intuitive EzEMS
element management
System

Green Technology
Energy Efficient Ethernet™
(EEE)

NSP switching platform

Chassis Design:

- NSP switching platform is a monolithic 1U system which comes with integrated uplink and stacking options
- NSP switches sport an industrial grade design to for extended temperature range of operations.
- Offers 1:1 redundancy for power supplies

Interface configurations:

- 48 GE port configuration (NSP-4xges48ge)
 - 4 X1G/10G optical uplink
 - 4 X 10G stacking ports(optional)
 - 48 X GE Base-T Port (with/without POE)

NSP Applications

Enterprise L2+ access switch:

- Reliable & high speed connectivity to host devices like desktops, servers, IP Phones, IP cameras, access control etc.
- Ability to stack up to 12 switches (optional)
- High speed fiber uplinks enable non-blocking network architecture.

Aggregation L3 Ethernet switch:

- Advanced L3 features
- High-speed non-blocking architecture and HA features provide carrier grade performance and reliability

NSP Features

Category	Features
Management	<ul style="list-style-type: none"> • CLI • SSHv1,v2 • HTTPS • XMP • SNMPv2,v3 • RMON • EzEMS™ (Nivetti's Element Management Systems)
Switching Features	<ul style="list-style-type: none"> • VLAN (802.1Q, 802.1p) • Link Aggregation (802.1ax) • STP (802.1D) • RSTP (802.1w) • MSTP (802.1s) • ERPS (G.8032v2)** • LLDP (802.1ab) • DHCP Snooping • Local and remote port mirroring • Dynamic VLAN allocation • MVRP
Security	<ul style="list-style-type: none"> • Port Authentication 802.1x • Port- MAC binding • MAC Limiting • Anti-spoofing (MAC-IP, ARP) • ACL • Private VLAN (PVLAN) • Per port broadcast, multicast and unicast storm control

Category	Features
Quality of Service (QoS)	<ul style="list-style-type: none"> • Multi-field classification & Marking • Up to 8 priorities queues per port • Policing –DLB, srTCM, trTCM and modified trTCM (RFC 2697, RFC 2698 & RFC 4115) • Shaping and Scheduling – SPR, WFQ, CIR-EIR, RED, WRED • L2,L3,L4 based packet classification
Multicast	<ul style="list-style-type: none"> • IGMP v2/v3, • IGMP Proxy • IGMP Snooping • Fast Leave • Static Joins • PIM
L3 Features*	<ul style="list-style-type: none"> • RIP • OSPF • Dual Stack • BGP4 • ECMP • VRRP • DHCP relay • Policy Based Routing (PBR) • NTP
AAA	<ul style="list-style-type: none"> • RADIUS, • TACACS+, • AAA Policy Domains, • EAP

*Note: L3 features are available only on L3 switching platforms

NSP Specifications

Specifications	NSP-4XGES48GE-C3PH	NSP-4XGES48GE-C3H
Dimensions (HxWxD)inch	1.75 X 17.5 X 15	1.75 X 17.5 X 15
Maximum Weight	8Kg	6.5Kg
Type (L2/L3)	L2/L3 switch	L2/L3 Switch
Ports	48 X GE Base T, 4 X 1G/10G SFP+	48 X GE Base T, 4 X 1G/10G SFP+
Throughput/MPPS	256 Gbps/190.4 MPPS	256 Gbps/190.4 MPPS
Mounting	Front	Front
Power	110 to 240V AC Dual-Redundant	110 to 240V AC Dual-Redundant
POE/POE+	720W	NA
Operating Temperature	0°C to 50°C	0°C to 50°C
Humidity	5% to 95% Non-Condensing	5% to 95% Non-Condensing
Altitude	4000m above MSA	4000m above MSA
Environmental	QM333	QM333
EMI/EMC	CISPR 22 A complaint IEC / EN 61000-4-2 IEC / EN 61000-4-3 IEC / EN 61000-4-4 IEC / EN 61000-4-5 IEC / EN 61000-4-6 IEC / EN 61000-4-8	CISPR 22 A complaint IEC / EN 61000-4-2 IEC / EN 61000-4-3 IEC / EN 61000-4-4 IEC / EN 61000-4-5 IEC / EN 61000-4-6 IEC / EN 61000-4-8



Think Networks! Think Security! Think Nivetti!



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