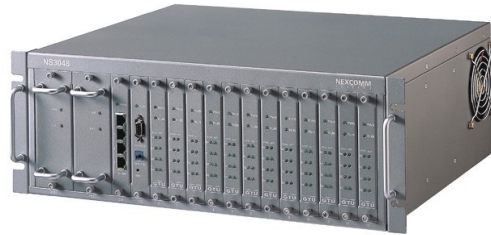


Ethernet-based DSLAM NS3048



Nexcomm's NS3048 is an Ethernet-based DSL Access Multiplexer (DSLAM) supporting various symmetrical DSL services such as SDSL and SHDSL. It makes the most of the state of the art of DSL routing and Inverse Multiplexing technologies for the high speed transmission over IP centric network environment.

NS3048 provides up to 48 single pair SHDSL lines allowing for the Fiber Optic speed by bonding multiple copper pairs. Together with NR104G & NR304G-4W, it can deliver the data rates, 9.2Mbps & 4.6Mbps by bonding 4 or 2 copper pairs instead of deploying optical fibers.

NS3048, supporting (100Base-T) Ethernet as uplink, could be the ultimate choice to avoid the complexity of provisioning and very expensive high-capacity switches in ATM network. By enhancing up to 9.2Mbps data rates, it can satisfy more demands on bandwidth-hungry data traffic of multimedia from subscribers. So the service providers benefit it from the low cost Ethernet backbones without heavy investments.

■ Economical DSL solutions

- Very cost effective equipment for service providers
- Using the existing infrastructure of copper pairs
- Allowing minimum installation time & its expense
- Cost saving by networking over economical IP backbone connectivity
- Modular-type for elastic cost for increasing port demands

■ Reliability

- Market proven Fast Ethernet switch architecture guarantees the performances & scalabilities.
- Use of CPU per each line module enables the reliably stable and more independent DSL processing.
- Hot Swap functionality & Dual power architecture

■ Flexibility of port expansion

NS3048 can be installed with 19" rack to be stackable to meet exponential demands of bandwidth from end-users (suitable for any standard rack)

■ Full range Bandwidth adaptivity

NS3048 provides different data rate from 144Kbps to 2.32Mbps at the 64kbps step and can enhance the speed 4 times faster than normal bandwidth when operated at an iMUX mode with NR104S/G iMUX Router (with loop bonding 4 pairs of copper wire).

■ Special Feature of VLAN

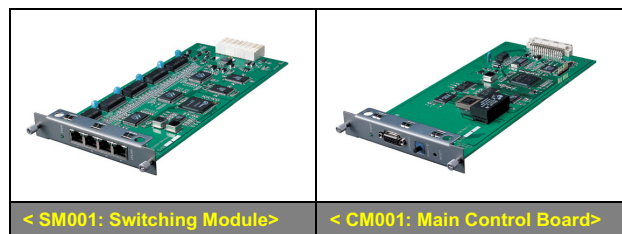
Not only VLAN feature benefits the performance, but also it automatically allocates different types of downstream DSL services by virtue of network isolation.

■ Hot Swapping & Redundancy

NS3048 supports a redundancy power module greatly improving system reliability. Fully hot swappable mechanical design ensures continuous service while adding modules or in repairs.

■ Connectivity in Wide Range of Service Providers

Uplink design of switching module can connect to a wide range of ISPs providing various types of services.



■ Easy Management and Monitoring

The system can be monitored by way of Telnet, SNMP, HTTP in addition to CLI.

■ Interoperability with various backbone network

4 ports of 100Base-T Ethernet can be combined with leased-line routers to form Point Of Presence (POP) for service providers and the system can be easily matched to standard Ethernet interface from the WAN devices.

Specifications

Interface



< Rear View of NS3048 >

xDSL SDSL(2B1Q) & SHDSL(TC-PAM)
DSL Interface Telco 50 pin connector x 2 (48 DSL ports)
Data Rate 144Kbps~2.32Mbps(Max. 9.2M, iMUX)
Up Link Ethernet, RJ45, 10/100Base-T x 4

Software Specifications

Routing IP, Static, RIP1, RIP2
Bridging Transparent Bridge
Load balancing and Inverse Multiplexing
TFTP
ARP, Proxy ARP
NAT
DHCP Server , DHCP Relay

Management Functions

Local CLI
Remote TELNET
 HTTP
 SNMP Agent

Specifications can be changed without prior notice.

Diagnostic LED's



< Front View of NS3048 >

POWER PWR, FAIL
UPLINK Link/Act, Speed
SDSL Power, Ethernet Link/Act, DSL Sync.
SHDSL Power, Ethernet Link/Act, DSL Sync.

Dual Power Supply

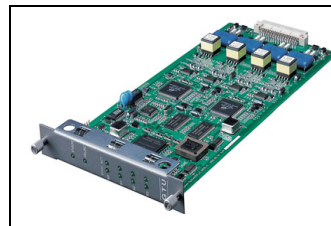
AC 85 ~ 240V (Free Voltage) main power supply
 DC -48V office power supply

Mechanical Specifications

Dimension (W x H x D) 434mm x 164mm x 380mm
Weight 13.0 Kg as fully loaded
 (Including chassis + Dual PMs+SM+CM+12 LMs)
Mounting 19" Rack Mountable

Operating Environment

Operating Temperature 0° ~ 50°C
Humidity 95% non-condensing



< LM002: Line Module >

This modular type Line card can be added at any time when service providers wish to increase more subscription lines for their customers

CPE Recommendations

Line Module	Line Coding	Interoperable CPE's
LM001	SDSL(2B1Q)	NM220S, NR301SH NR104S
LM002	SHDSL(TC-PAM)	NM220G, NR304GH, NR304G-4W, NR104G

Quality Management

NexComm Systems, Inc has been certified ISO9001 from European Quality Assurance Ltd. authorized agent of International Standard Organization(ISO)9001 Quality Management Standard

Warranty

NexComm Systems, Inc. warranties its products to be free from defects in workmanship and materials, under normal use and service, for a period of one year from the date of purchase from NexComm Systems Inc. or its Authorized Resellers.

NEXCOMM
SYSTEMS

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