



NV-800S 8-Port Managed VDSL Concentrator

Features

- 8 full-duplex VDSL links up to 15 Mbps and distances up to 5000 feet via RJ-11 connectors
- 8 corresponding POTS/ISDN lines via RJ-11 connectors
- Built-in POTS/ISDN splitter for each link
- Dual auto-sensing RJ-45 10/100 BaseT Ports
- Signal-to-Noise Ratio indicator for troubleshooting and determining maximum link distances
- Flexible configuration of network resources via web-based interface
- Layer 2 and Layer 3 Switch Features
- Compact 1U rack mount design
- Compliant with ETSI, ITU and ANSI standards

Standards

- 802.1ad Link Aggregation/Port Trunking
- 802.1d Spanning Tree
- 802.1p QOS with Priority Queuing
- 802.1Q VLAN Tagging
- 802.1v Protocol-Based VLAN
- 802.3 Ethernet
- 802.3u Fast Ethernet
- 802.3x Flow Control



The NV-800S Managed VDSL Concentrator provides an intelligent solution for delivering network and broadband services to the SOHO and MTU/MDU with speeds up to 15Mbps and distances up to 5,000 feet (1524m) over existing phone lines.

The Netsys Low-Density VDSL solution including the NV-800S Managed VDSL Concentrator and NV-200 VDSL CPE (Customer Premise Equipment) Modem delivers everything needed to quickly deploy a high-speed Ethernet-based network for providing high-speed Internet access and video-on-demand services, in addition to voice services. The NV-800S' 10/100 Ethernet Uplink Port connects to a Router or Ethernet Switch and acts as the bridge to the Internet for end-users connected through the NV-800S' 8 VDSL ports. The second 10/100 Ethernet Uplink Port may be used for cascading additional NV-800S units or connecting to a video-on-demand server or other IP capable system for distributing content to the end-user. The NV-800S also features built-in POTS/ISDN splitters so that the VDSL service can share the existing phone line with the end-users' POTS/ISDN telephone service, thus reducing cost and overall wiring requirements. The POTS/ISDN lines and VDSL links connect to standard RJ-11 connectors on the front of the NV-800S and are broken out on the end-user side by the NV-200 CPE Modem, which features one 10/100 Ethernet Port and one POTS/ISDN Port. For higher density applications, the Netsys NV-2400S 24-Port Managed VDSL Concentrator and standard Ethernet Switches (like the NS-2024S Gigabit Ethernet Switch) can be used to provide additional expansion.

The intelligent web-based management software, allows for streamlined configuration of the NV-800S, as well as NV-200 CPE devices through a single IP address. The NV-800S can be configured on a per-link basis to support 5 Mbps up to 5,000-feet (1524m), 10 Mbps up to 4,000 feet (1219m) and 15 Mbps up to 3,200 feet (975m). Additionally, the signal-to-noise ratio (SNR) feature can be utilized as an indication to the service provider as to the quality of the link between the NV-800S and the CPE.

The NV-800S is also a fully managed layer 2 switch that offers quality of service (QOS), link aggregation dynamic trunking groups, multicast, security, GVRP, IGMP for VOD (video on demand), SNMP RMON and web-based switch network management. The NV-800S provides high and low priority queuing per port based on 802.1p QOS. The NV-800S provides security through 802.1Q port-based virtual local-area network (VLAN) and supports port based network access control.

The NV-800S provides comprehensive hardware diagnostics and is easy to maintain. The NV-800S is one rack-unit high, 10-inches deep (254mm) and can be easily mounted in a rack/cabinet or placed on a desktop. The resulting compact, cost-effective form factor offers systems integrators, small business and building owners an attractive low-density VDSL solution.





Detailed Specifications:

Package Contents	1 X NV-800S Unit 1 X User Manual CD 1 X AC Power Cord 2 X Rack Mount Brackets 4 X Mounting Screws 4 X Plastic Feet	Switching Features	<ul style="list-style-type: none"> • Switching Method: Store-and-Forward • MAC Address Table: 8K addresses • Supports MAC Address filtering • Supports Broadcast Storm Filtering • Supports Port Based VLAN • Supports VLAN Tagging: <ul style="list-style-type: none"> - 256 VLAN Groups - 1 to 4094 VLAN IDs - Ingress Filtering - GARP/GVRP • Supports Protocol Based VLAN • Supports Quality of Service (QOS) • Supports Port Mirroring/Sniffing • Supports Port Trunking/Link Aggregation (LACP) • Supports Spanning Tree Protocol • Supports IGMP Snooping (Multicast) for Video On Demand (VOD) Applications • 512 Multicast IP Groups • Supports Port Based Network Access Control • Provides DHCP Client
Remote Unit	NV-200	Configuration & Management Features	<ul style="list-style-type: none"> • System Configuration/Remote Network Configuration: CLI, Telnet, Web browser • Supports In-Band/Out-Of-Band Management • Supports SNMP <ul style="list-style-type: none"> - RFC 1493 Bridge MIBs - RFC 1213 MIB II - RFC 1643 Ethernet MIB - Enterprise MIB • Supports RMON Groups 1, 2, 3, 9 (RFC 1757) • Supports Firmware Upgrade via TFTP/XMODEM • Fan and Internal Temperature Monitor and Management • Front panel reset button
Client Port Features	<ul style="list-style-type: none"> • 8 VDSL links presented on RJ-11 connectors with built-in surge protection <ul style="list-style-type: none"> - 5 Mbps up to 5000 feet (1524m) - 10 Mbps up to 4000 feet (1219m) - 15 Mbps up to 3200 feet (975m) • Signal to Noise Ratio (SNR) Line Quality Monitoring • Utilizes QAM Modulation • Transmitter operates between 4.5 to 7.9 MHz • Receiver operates between 0.9 to 3 MHz • Spectral compatibility with xDSL, ISDN (2B1Q/4B3T), and HomePNA 	Mounting Method	19" Rack Mount (1RU) or Desktop
POTS/ISDN Features	<ul style="list-style-type: none"> • 8 POTS/ISDN lines presented on RJ-11 connectors with integrated POTS/ISDN splitters • Band pass filter spectrum: 0 - 680 KHz 	Dimensions	16.25" x 10.13" x 1.69" (413mm x 257mm x 43mm)
Uplink Port Features	<ul style="list-style-type: none"> • 2 X 10/100 Mbps auto-sensing full or half-duplex RJ-45 Ethernet uplink port • Supports flow control for full-duplex operation • Supports back pressure for half-duplex operation • Cascade up to 4 units • Additional expansion using an Ethernet GigaSwitch 	Shipping Weight	8 lbs. (3.63Kg)
Console Port	DB-9F RS-232 connection for out-of-band console access	Power Requirements	Internal AC 100-240 volts; 50-60 Hz.; 2 Amp IEC-320 power plug on back of unit
LEDs	8 X VDSL Link Indicators 3 X LEDs per 10/100Base-TX Ethernet Uplink port (Link/Activity, Speed, Duplex Status) 1 X Power LED 1 X Post LED	Operating Temperature	41 to 122°F (5 to 50°C) 1 cooling fan located on back of unit
		Humidity	10% to 90% Non-Condensing
		Agency Compliance	FCC Part 15 Class A, CE
		Warranty	1 Year



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