

# NV-600 VDSL2 CO/CPE Modem

## General Description

Netsys NV-600 Series is a VDSL2 Modem leverages the extraordinary bandwidth promise of VDSL2 (max. 100Mbps Symmetric) technology, the next step in the delivery of new high-speed Internet applications to end-users in their homes or offices. Quick, easy and economical to install and maintain, the NV-600L works with the NV-600R over existing copper wire infrastructure. NV-600L is a CO (Central Office) device while NV-600R is a CPE (Customer Premise Equipment) device.

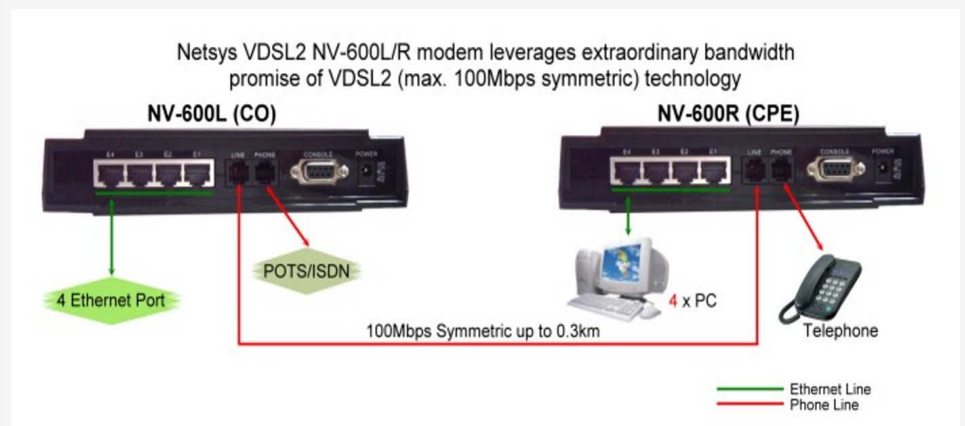
Netsys NV-600 Series will allow operators worldwide to compete with cable and satellite operators by offering services such as HDTV, VOD, videoconferencing, high speed Internet access and advanced voice services including VoIP, over a standard copper telephone cable.

Netsys NV600 Series is seen by many operators as an ideal accompaniment to a FTTP rollout, where for instance fiber is supplied direct to an apartment block and from there copper cable is used to supply residents with high-speed VDSL2.

NV-600L/R



## Point to Point Application



NETSYS is a trademark of National Enhance Technology Corp. The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, National Enhance Technology Corp. hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In the interest of improving internal design, operational function, and/or reliability, NETSYS reserves the right to make changes to the products described in this document without notice. NETSYS does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein. Copyright ©2008 by National Enhance Technology Corp. All rights reserved.

For more product information, visit us on the web [www.netsys.com.tw](http://www.netsys.com.tw)

# NV-600 VDSL2 CO/CPE Modem

## Key Features & Benefits

- Compliant with G993.2 VDSL2 standards.
- Compliant with IEEE 802.3 & 802.3u Ethernet standards.
- Provides 4 x 10/100M auto-negotiation RJ-45 Ethernet ports.
- Supports bandwidth setup with 100 Mbps VDSL RJ-11 ports.
- Provides POTS / ISDN Splitter on board.
- Support UPBO(Upstream Power Back-Off) and DPBO(Downstream Power Back-Off).
- Supports auto speed for VDSL2 port.
- Support web management(HTTP), TFTP and Console(RS-232C).
- Support UPnP/PPPoE/NAT/DHCP/DMZ/Firewall.
- Support Router & Switch(Bridge) mode.
- Supports loop back.
- Supports SNR indicator for checking phone wire quality.
- Supports interleave delay for data error and against noise.
- Supports 8a, 8b, 8c, 8d, 12a, 12b, 17a, 17b and 30a band profile.
- Supports 997 and 998 band plan.
- Provides surge protection for VDSL2 port.
- EMI compliant: CE, FCC and VCCI.

## Product Specification

### Standards:

IEEE802.3 standard  
IEEE802.3u standard

### Interfaces:

Compliant G993.2 VDSL2 standard  
4 x RJ-45 10/100Mbps Ethernet port  
1 x RJ-11 connector for VDSL2  
1 x RJ-11 connector for POTS/ISDN device

### Band Profile:

8a, 8b, 8c, 8d, 12a, 12b, 17a, 17b, 30a  
997, 998

### Band Plan:

Symmetric 100Mbps / 0.3km

### Max. Bandwidth:

### LED indicators:

1 x Power LED  
4 x Link/Active Status for Ethernet port  
1 x Link LED for VDSL2 port

### Switch method:

Store and forward

### Console port:

RS-232C/115200bps

### Flow control:

Full duplex: IEEE 802.3x  
Half duplex: Back pressure

### Typical Power

NV-600L:5.52W / NV-600R:6.12W

### Consumption:

### Operating Temperature:

0°C ~ 50°C (32°F ~ 122°F)

### Storage Temperature:

-20°C ~ 70°C (-4°F ~ 158°F)

### Humidity:

10 to 90% (non-condensing)

### Dimensions:

184 x 146 x 40 mm (7.2" x 5.74" x 1.57")

### External Power Adapter:

Input: AC 85~240 volts / 50~60Hz  
Output: DC 12V / 1A

### Chipsets:

Infineon MIPS ADM5120P  
Infineon VINAX

For more product information, visit us on the web [www.netsys.com.tw](http://www.netsys.com.tw)



NV-600L/R

NETSYS is a trademark of National Enhance Technology Corp. The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics. With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, National Enhance Technology Corp. hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

In the interest of improving internal design, operational function, and/or reliability, NETSYS reserves the right to make changes to the products described in this document without notice. NETSYS does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein. Copyright ©2008 by National Enhance Technology Corp. All rights reserved.