NV-500

Industrial Grade VDSL2 Bridge with DIP Switch
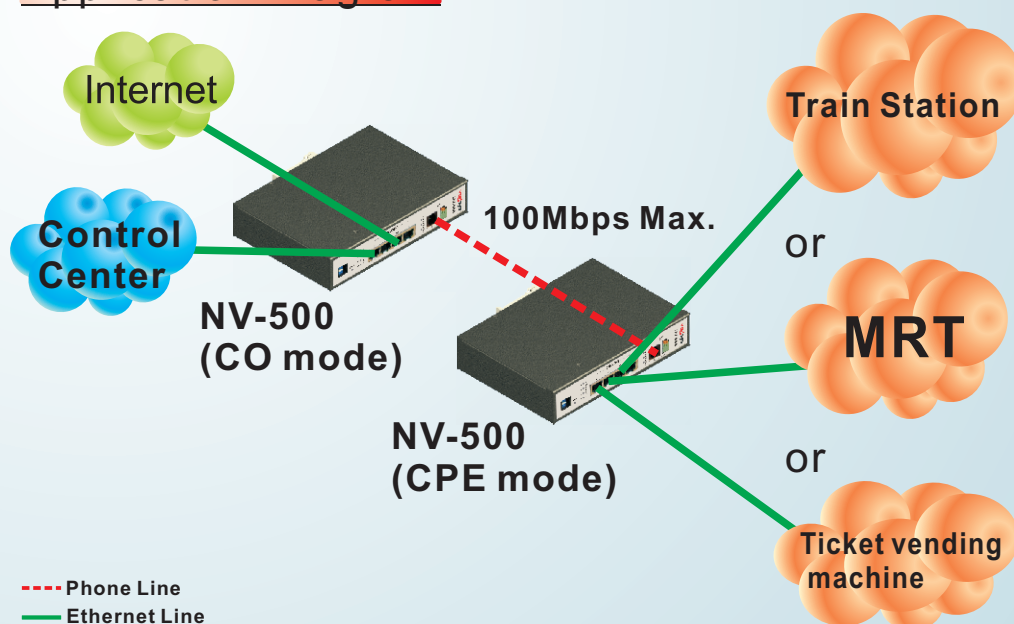
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General Description

Netsys' NV-500 is a VDSL2 single port bridge equipped with four 10/100Mbps Ethernet ports that provide an economical solution for your industrial applications. Compliant with ITU-T G.993.2 VDSL2 standard, the NV-500 supports a maximum bandwidth of up to 100Mbps symmetric in VDSL2 Profile (30a) solution. The NV-500 also supports both central office (CO) and customer-premises equipment (CPE) modes selectable through DIP Switch.

The NV-500's DIN-Rail and Industrial-grade design offers quick, easy, economical, and high-performance broadband/multimedia services to industrial environments such as Factory, MRT, Train station, Ticket vending machine, Parking system, Monitoring system and point to point applications.
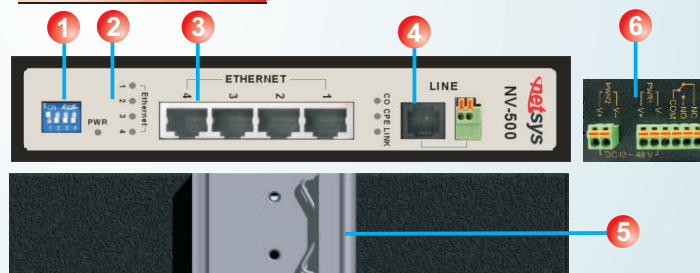
Application Diagram

Internet

Control Center

NV-500 (CO mode)

100Mbps Max.

NV-500 (CPE mode)

Train Station

or

MRT

or

Ticket vending machine

- - - - **Phone Line**
_____ **Ethernet Line**

G993.2 VDSL2 Standards

Symmetric 100Mbps/0.3km

Anti-Noise Interleave Delay

Detailed View

NV-500:
1. DIP Switch Configuration
2. LED Indicators
3. 10/100 Ethernet Ports (E1~E4)
4. VDSL LINE Port
5. DIN-Rail mounting
6. 12 to 48VDC dual power input with terminal block

Order information: NV-500 (Industrial VDSL2 Bridge with DIP Switch)

For more product information, visit us on the web www.netsys.com.tw

DATA SHEET

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Key Features & Benefits

- Supports high bandwidth up to 100Mbps symmetric over Line ports
- Support long reach mode up to 3 km with 24 gauge phone wire
- Support auto speed for Line port and Interleave mode selectable through CO side DIP switch
- DIP switch with CO and CPE mode selectable
- Supports long packet size up to 1536 bytes
- Supports Surge protection
- Support power redundant and wide range dual power input(DC12V ~ 48V)
- Supports Overload Current Protection
- Supports wide range operating temperature(-20°C ~ 70°C)
- Supports Reverse Polarity Protection
- Supports alarm contact (relay output - 1 A @ 24 VDC)
- Supports DIN-Rail mount installation
- Metal case design and compliant with IP30 standard

Product Specification

Standard:	IEEE802.3/802.3u standard G993.2 VDSL2 standard
Physical Interface:	4 x RJ-45 10/100Mbps Ethernet port 1 x RJ-11/Terminal Block connector for VDSL2 line port 1 x DIP Switch 1 x removable 6-contact terminal blocks for power1 and alarm contact 1 x removable 2-contact terminal blocks for power2
LED Indicators:	1 x Power LED 4 x Link/Active Status for Ethernet port 1 x Link/Speed LED for VDSL2 port 1 x CO Mode indicator LED 1 x CPE Mode indicator LED
VDSL2 Line Code:	Discrete multitone (DMT) modulation
VDSL2 Transmission Mode:	Packet Transfer Mode (PTM)
Typical Power Consumption:	6W
Power Input:	Input Voltage: 12 to 48VDC Input Current: 0.5~0.125A
EMC:	EMI Compliant: FCC class A EMS Compliant: CE mark
Operating Temperature:	-20°C~ 70°C (-4°F ~ 158°F) Fanless, free air cooling
Storage Temperature:	-40 ^{o}C~ 70°C (-40°F ~ 158°F)
Humidity:	5 to 95% (non-condensing)
Dimensions:	170mm x 121mm x 35mm (6.7" x4.76 " x1.37 ")

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