



VDS-1201 Version: 1

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## Ethernet over VDSL2 Converter, Annex A

Why convert Ethernet to VDSL? The LevelOne VDS-1201 converts your data from Ethernet to VDSL, making it easy to send high-bandwidth data over long distances. This new technology uses traditional twisted-pair telephone wiring instead of expensive Cat.5 cables.

New technology = cost-effective deployment When using VDSL2 (Very High Speed Digital Subscriber Line) technology, users can transmit data up to 300 meters without having to add expensive Ethernet switches or cables to extend the network reach. And with 100Mbps downstream and 100Mbps upstream, VDSL2 technology provides ample space for all high bandwidth usage.

Fast transfer speeds? Yes. Easy Installation? Yes. VDS-1201 works especially well in applications where traditional copper phone lines are already installed: apartments, condominiums, hotels, university campus, etc. There is no need to run expensive Ethernet cables and installers can easily integrate VDSL technology into the existing network. The VDS-1201 is plug and play ready and requires minimum installation time.

Customized settings Each VDS-1201 also allows for customized settings for advanced use. Using a built-in DIP switch, users can customize the behavior of the device to match the desired network configuration.

Annex A For networks that utilize PSTN telephone systems.

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### Key Features

- Trellis coding support up to 1024 discrete multi-tone bins and 4 Dip Switches for configuration settings
  - Low-Latency for Video/Voice/Data applications
  - Supports a VDSL connection of up to 2km over single pair copper wire
  - Features selectable Fast and Interleaved modes
  - Selectable fixed data rate and fixed SNR margin
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### Specifications

#### System Specifications

##### Standards & Protocols:

VDSL2:

ITU-T G.993.2

Supports VDSL2 profiles: 17a, 30a

Max Data Rate: 100/100 Mbps

POTS:

Annex A

LAN:

Auto-Detection for 10/100 BaseT and Half/Full duplex

High performance bridge for Ethernet extension

www.level1.com Fully compatible with IEEE802.3/IEEE802.3u



## Automatic MDI/MDIX Function

### Port:

2 x RJ45 Ethernet port  
1 x RJ11 DSL Interfaces

### Indicator:

POWER(Power is ON/OFF)  
LAN1(Data Activity/Link)  
LAN2(Data Activity/Link)  
DSL(VDSL Loop Connection Status)  
M/S(Master/Slave Selection)

### Power Input:

DC 12V/1A

## Features

### General:

1. ITU-T G.993.1, G.993.2 VDSL/VDSL2 and SG15Q4 DMT Compliance
2. 100/100Mbps Down/Up Stream for distance up to 300 meters
3. Trellis Coding support up to 1024 Discrete Multi-Tone (DMT) bin
4. Supports DSL connection up to 1500 meters
5. Selectable fixed SNR margin
6. Auto MDIX for 10/100 BaseT Ethernet LAN Ports
7. 4 Dip Switches for Master/Slave Configurations
8. Low-Latency for Video/Voice/Data applications

## Performance

### Operating Distance:

ITU-T G.993.1/2, SG15Q4 DMT Compliance  
Trellis Code with 1024 DMT bins  
Max Data Rate: 100/100 Mbps

## Environment

### Operating Temperature (°C):

0 ~ 40 degree C

### Operating Humidity (Non-condensing):

5% to 95%

### Installation:

Desktop, Wall Mounted, ODU(option)  
19-inch 8-Bay Power cabinet(option)

## Physical Specifications

### Dimensions (W x D x H mm):

120 x 90 x 28 (mm)

### Weight (g):

330

## Approval and Compliance

### EMI/EMS:

CE, FCC, LVD, JATE

## Order Information

VDS-1201

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## Package Contents

VDS-1201

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