level one ®

VDS-2201

## Gigabit Ethernet VDSL2 Converter/Extender

Quick Installation Guide

Front Panel Illustration

The following interfaces are placed on the front panel:
- 1 x RJ-45 connector for Gigabit Ethernet LAN port
- 1 x RJ-45 connector for VDSL2 port
- 3 x LEDs for LAN port speed and link status
- 1 x LED for power status
- 1 x LED for RT mode activation
- 1 x LED for VDSL2 link status
- 4 DIP Switches for CFG (Configuration)
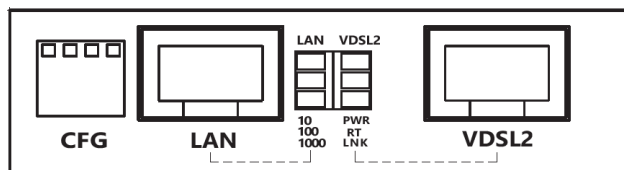
LED Indicators

LEDs on the right

LED	Color	Blink	On	Off
PWR	Green	N/A	Device Power On	Power Off
RT	Green	N/A	RT (Remote)	CO (Master)
LNK	Green	Slow: Idle Fast: Training	VDSL2 LINK UP	VDSL2 LINK DOWN

LEDs on the left

LED	Color	Blink	On	Off
10	Green	Data Transmitting	10Mbps	LINK DOWN
100	Green	Data Transmitting	100Mbps	LINK DOWN
1000	Green	Data Transmitting	1000Mbps	LINK DOWN

DIP Switch Configuration
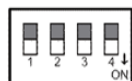
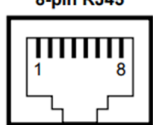| DIP Switch	Function	On	Off
1	RT/CO	RT	CO
2	Asymm/Symm	Asymmetric	Symmetric
3	Mode	Interleave	G.INP
4	SNR	Low	High

Wall Mounting
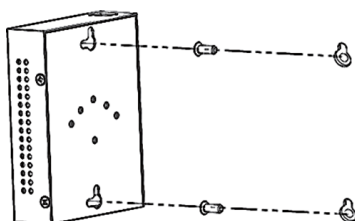
Input from Terminal Block range 12 ~ 24VDC

Insert the positive and negative wires into V+ and V- contacts on the terminal block and tighten the wire-clamp screws to prevent the wires from being loosened.
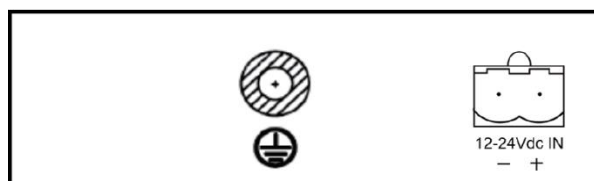
LINE Port Pin Assignments

Two of the eight pins of VDSL2 port are used to connect UTP cable over long distances, pin-out assignments are shown in the table below.

Pin	Description	Figure
1	Not Used	
2	Not Used	
3	Not Used	8-pin RJ45
4	ANALOG Input/Output	
5	ANALOG Input/Output	
6	Not Used	
7	Not Used	
8	Not Used	

Performance

UTP, 26AWG		
Symmetric, SNR Low, G.INP		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	146	162
1,000	116	112
2,000	35	61
3,000	28	30

UTP, 26AWG		
Asymmetric, SNR Low, Interleave		
Distance (Feet)	Upstream Line Rate (Mbps)	Downstream Line Rate (Mbps)
500	64	284
1,000	59	171
2,000	31	67
3,000	10	35

Note:

The factory default setting of switch 1 is "ON", other three DIP switches are at "OFF" positions. Before adjusting the DIP switch, ensure that the power has been turned off.