VDS-1201/1202/1203

Ethernet over VDSL2 Converter

Quick Installation Guide

<Packing Contents>

(1) One VDSL2 LAN Extender
(2) One AC to DC Power Adaptor (12VDC/1A)
(3) One User QIG

< Installation Steps>

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(4) Connect regular phone set to PHONE port if original indoor telephone is used
(5) Connect existing DSL or Coax wireline.
(6) Connect PC to either LAN 1 or 2
(7) Set up Pin 1 on OFF as CO side and other device on ON as CPE for a pair connection
(8) Plug in 12V/1A external power adaptor and power up the devices for connection

LED Indicators

On the front panel of the device, there are 5 LED indicators as the following

POWER: "**Green On**" indicates power is on and normal.

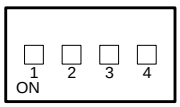
LAN1: "**Green On**" indicates Ethernet LAN1 port is in connection.
"**Flashing**" indicates Ethernet LAN1 data activities.

LAN2: "**Green On**" indicates Ethernet LAN2 port is in connection.
"**Flashing**" indicates Ethernet LAN2 data activities.

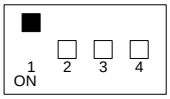
DSL: "**Green On**" indicates VDSL2 is in connection.
"**Flashing**" indicates VDSL2 is in line handshaking.

M/S: "**Green On**" indicates device is set as Slave (VTU-R) mode.
"**OFF**" indicates device is set as Master (VTU-C) mode.
*refer to DIP Switch Pin 1

Dip Switches Settings



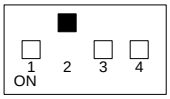
	Pin 1	Pin 2	Pin 3	Pin 4
	VTU-C/R	Profile	Profile	SNR
OFF	VTU-CO	30a	Annex A	9dB
ON	VTU-CPE	17a	Annex B (ISDN 997)	6dB



Pin 1: **VTU-C/R Switch**

VTU-C: V102M-PD will act as at the Central Office (CO) side.

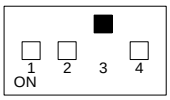
VTU-R: V102M-PD will act as at the Customer Premise Equipment (CPE) or Remote side.



Pin 2: **Mode for VDSL2 Connection Profile**

30a: for VDSL2 30a profile

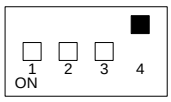
17a: for VDSL2 17a profile.



Pin 3: **Mode for VDSL2 Annex.A/B**

Annex.A: for VDSL2 Annex.A 30a/17a.

Annex.B: for VDSL2 Annex.B 30a/17a.



Pin 4: **Signal to Noise Ratio (SNR) Margin**

9dB: Higher SNR margin (9dB) will result in less error with more stable VDSL2 link.

6dB: Original and Normal channel noise protection with 6 dB SNR.

VDS-1201/1202 Data Rates & Distances

Performance in AWG 24 Line at 6dB with full rate

Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)
100	100	1000
90	70	1250
80	60	1500
70	45	1750
60	38	2000
48	28	2500
39	18	3000
35	10	3500
28	3	4000

VDS-1203 Data Rates & Distances

Performance in 5C2V Cable at 6dB with full rate

Down Stream Data Rate (Mbps)	Up Stream Data Rate (Mbps)	Distance (feet)
100	100	1500
96	51	1750
88	48	2000
81	45	2500
77	37	3000
70	32	3500
63	27	4500