



National Enhance Technology Corp.

Test Report

Model Number : NV-2400H

Product Name : 24Ports VDSL2 IP DSLAM

Test Type : Performance test

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◆ **Test Environments:**

Test Items	Descriptions
VDSL2 IP DSLAM x 1	NV-2400H
VDSL2 Bridge CPE Mode x 1	NV-202 CPE Mode
Operation System	Windows XP
Ethernet Cable	Cat 5e. UTP RJ-45 8P8C Ethernet Cable
Loop Simulator	Telbye : 458-LM-A8-36
Room temperature	25 degree C

◆ **Test conditions:**

Test Items	Descriptions
Noise injection	None
Tone mode	Downstream: 8ms, Upstream: 8ms
Max Interleave Delay	Downstream: 2 symbol, Upstream: 2 symbol
Target SNRM	6dB

◆ **Test Procedure:**

1. Connecting the NV-2400H and NV-202 CPE mode.
2. Open the web user interface window to set the band profile and band plan.
3. At the Channel Config, it will show the US(Upstream) and DS(Downstream) at the IP DSLAM web ui.
4. Gather the US and DS at interval of 150 meters step size up to the distance until the bridge cannot link.
5. Test band plan 17a and 30a.

Test Results:
■ **NV-2400H with NV-202 (Profile : 17a)**

Annex C_POTS_25-276-b		
Cable Length (meters)	US [Mbps]	DS [Mbps]
0	100	100
150	100	100
300	73.10	100
450	30.24	94.96
600	16.20	58.76
750	8.06	45.88
900	4.94	33.27
1050	2	27.92

Annex C_POTS_25-138-b		
Cable Length (meters)	US [Mbps]	DS [Mbps]
0	100	100
150	100	100
300	73.25	100
450	30	94.50
600	16.13	58.76
750	8	46
900	4.88	33.65
1050	2.03	28.27

Annex B8B8-9_998E17-M2x-NUS0-M		
Cable Length (meters)	US [Mbps]	DS [Mbps]
0	72.56	99.28
150	70.05	96.02
300	58.23	83.28
450	39.02	66.95
600	18.40	53.91
750	8.51	45.77
900	5.49	36.20
1050	2.4	30.96

Annex B_B8-2_998_M1x-B					
Cable Length (meters)	US [Mbps]	DS [Mbps]	Cable Length (meters)	US [Mbps]	DS [Mbps]
0	53.76	75.84	1950	2.09	10.47
150	53.57	76.09	2100	1.99	8.91
300	46.67	73.90	2250	1.96	7.22
450	34.05	67.35	2400	1.89	6.08
600	16.13	55.37	2550	1.79	5.01
750	7.24	47.34	2700	1.71	4.34
900	4.39	33.64	2850	1.57	3.46
1050	3.03	29.99	3000	1.54	2.80
1200	2.14	25.47			
1350	2.12	21.56			
1500	2.12	17.89			
1650	2.12	15.15			
1800	2.12	12.68			

Notes:

- ◆ D/S: Downstream; U/S: Upstream. Actual Data Rate Unit: Mbps
- ◆ SNR Margin unit: 0.1dB.
- ◆ The performance data above is for reference only, the actual data rate will vary on the quality of the copper wire and environment factors.

■ NV-2400H with NV-202 (Profile : 17a)

Annex B_B8-2_998_M1x-A					
Cable Length (meters)	US [Mbps]		Cable Length (meters)	DS [Mbps]	
	US [Mbps]	DS [Mbps]		US [Mbps]	DS [Mbps]
0	53.76	75.84	1950	1.24	10.80
150	53.59	76.11	2100	1.21	9.27
300	46.81	73.97	2250	1.20	7.51
450	33.67	67.45	2400	1.13	6.23
600	17.67	54.84	2550	1.14	5.21
750	7.38	47.08	2700	1.25	4.43
900	4.54	33.46	2850	1.16	3.46
1050	2.34	29.08	3000	1.15	2.96
1200	1.14	25.47			
1350	1.19	21.62			
1500	1.22	18.08			
1650	1.21	15.29			
1800	1.22	12.82			

Annex B-B7-10_997E30-M2x-NUS0		
Cable Length (meters)	US [Mbps]	DS [Mbps]
0	100	100
150	100	100
300	100	72.40
450	68.49	53.59
600	33.45	42.55
750	18.20	37.10
900	10.73	31.51
1050	6.23	27.73
1200	2.04	25.38
1600	2.30	18.50

Annex B-B7-2_997_M1x-M-8					
Cable Length (meters)	US [Mbps]		Cable Length (meters)	DS [Mbps]	
	US [Mbps]	DS [Mbps]		US [Mbps]	DS [Mbps]
0	43.97	52.74	1950	2.52	10.37
150	43.95	53	2100	2.42	8.78
300	41.32	51.36	1250	2.37	7.17
450	33.70	47.73	2400	2.31	6.02
600	24.61	41.32	2550	2.23	4.88
750	13.48	37.02	2700	2.19	4.11
900	8.02	29.33	3000	2.04	3.23
1050	5.42	26.55			
1200	3.15	23.65			
1350	2.46	20.59			
1500	2.57	17.60			
1650	2.40	14.84			
1800	2.54	12.38			

Notes:

- ◆ D/S: Downstream; U/S: Upstream. Actual Data Rate Unit: Mbps
- ◆ SNR Margin unit: 0.1dB.
- ◆ The performance data above is for reference only, the actual data rate will vary on the quality of the copper wire and environment factors.

■ **NV-2400H with NV-202 (Profile : 17a)**

Annex B-B7-1_997_M1c-A-7					
Cable Length (meters)	US [Mbps]	DS [Mbps]	Cable Length (meters)	US [Mbps]	DS [Mbps]
0	27.70	54.11	1950	0.92	10.31
150	25.72	54.46	2100	0.93	8.57
300	23.44	53.99	2250	0.92	6.90
450	20.60	50.92	2400	0.88	5.76
600	16.89	43.45	2550	0.92	4.65
750	12.50	38.96	2700	0.94	3.83
900	8.15	31.35			
1050	3.96	28.30			
1200	2.35	24.48			
1350	0.97	21.27			
1500	0.99	18.08			
1650	0.91	15.14			
1800	0.91	12.49			

Annex A_POTS_D-32_EU-32					
Cable Length (meters)	US [Mbps]	DS [Mbps]	Cable Length (meters)	US [Mbps]	DS [Mbps]
0	25.26	100	1950	0.99	13.05
150	51.57	100	2100	0.99	10.89
300	43.65	100	2250	1.01	9.48
450	31.83	80.29	2400	1	8.02
600	17.44	60.66	2550	0.91	6.53
750	8.66	52	2700	0.86	5.54
900	5.88	39.43	2850	0.81	4.78
1050	3.45	38.18			
1200	1.65	31.97			
1350	1.02	27.85			
1500	1.02	22.59			
1650	1.04	19.24			
1800	0.99	15.73			

Notes:

- ◆ D/S: Downstream; U/S: Upstream. Actual Data Rate Unit: Mbps
- ◆ SNR Margin unit: 0.1dB.
- ◆ The performance data above is for reference only, the actual data rate will vary on the quality of the copper wire and environment factors.

■ NV-2400H with NV-202 (Profile : 30a)

Annex C_TCM-ISDN		
Cable Length (meters)	US [Mbps]	DS [Mbps]
0	100	100
150	100	100
300	72.25	100
450	30.36	89.98
600	16.38	55.09
750	8.21	44.07
900	5.01	29.21
1050	2	28.70

Annex A_POTS_D-32		
Cable Length (meters)	US [Mbps]	DS [Mbps]
0	100	100
150	93.87	100
300	49.74	100
450	34.100	87.68
600	18.55	62.82
750	9.30	54.28
900	6.22	40.87
1050	2.63	35.19

Notes:

- ◆ D/S: Downstream; U/S: Upstream. Actual Data Rate Unit: Mbps
- ◆ SNR Margin unit: 0.1dB.
- ◆ The performance data above is for reference only, the actual data rate will vary on the quality of the copper wire and environment factors.