



National Enhance Technology Corp.

Test Report

Model Number : 3010E Series

Product Name : G.SHDSL.bis EFM Bridge

Test Type : Performance test

Test by : Aska

Approval by : Blake

Date : 2015/07/09

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◆ **Test Environments:**

Test Items	Descriptions
G.SHDSL.bis EFM Bridge	3010E/3020E/3040E
CPE Device	3010E/3020E/3040E
Operation System	Windows XP
Ethernet Cable	Cat 5e. UTP RJ-45 8P8C Ethernet Cable
TCPAM Type	Auto(16/32) TCPAM-128 (<i>Optimal Mode</i>) TCPAM-128
Room temperature	25 degree C

◆ TACPAM-32/16 (Auto Mode)

Line Speed	2 wire	4 wire	8 wire	26 AWG/0.4mm		24 AWG/0.5mm		22 AWG/0.65mm		
	N=	kbps	kbps	kbps	kft	km	kft	km	kft	km
3		192	384	768	17.0	5.2	21.5	6.6	27.5	8.4
4		256	512	1024	17.0	5.2	20.5	6.2	27.0	8.2
8		512	1024	2048	14.5	4.4	17.5	5.3	23.5	7.2
12		768	1536	3072	13.5	4.1	16.0	4.9	21.5	6.6
16		1024	2048	4096	12.5	3.8	15.0	4.6	20.0	6.1
20		1280	2560	5120	12.0	3.7	14.5	4.4	19.0	5.8
24		1536	3072	6144	11.5	3.5	14.0	4.3	18.5	5.6
32		2048	4096	8192	11.0	3.4	13.5	4.1	17.5	5.3
36		2304	4608	9216	11.0	3.4	13.0	4.0	17.0	5.2
60		3840	7680	15360	9.0	2.7	11.0	3.4	14.5	4.4
72		4608	9216	18432	8.5	2.6	10.0	3.0	13.5	4.1
89		5696	11392	22784	7.5	2.3	9.0	2.7	12.0	3.7

Notes:

- ◆ “2 wire” a N= 64 kbps, for example: 3 N= 192 kbps.
- ◆ “2 wire / 4 wire / 8 wire” content is displayed symmetrically upstream and upstream rate.
- ◆ The performance data above is for reference only, the actual data rate will vary depending on the quality of the copper wire and environment factors.

◆ TCPAM-128 (Optimal Mode)

Line Speed	2 wire	4 wire	8 wire	26 AWG/0.4mm		24 AWG/0.5mm		22 AWG/0.65mm	
	N= kbps	kbps	kbps	kft	km	kft	km	kft	km
7	448	896	1792	20.0	6.1	24.0	7.3	31.0	9.4
8	512	1024	2048	19.0	5.8	23.0	7.0	30.0	9.1
10	640	1280	2560	18.0	5.5	20.5	6.2	28.0	8.5
11	704	1408	2816	17.0	5.2	19.0	5.8	26.5	8.1
16	1024	2048	4096	16.0	4.9	18.0	5.5	24.5	7.5
20	1280	2560	5120	15.0	4.6	17.0	5.2	23.0	7.0
22	1408	2816	5632	14.0	4.3	15.5	4.7	21.0	6.4
27	1728	3456	6912	13.0	4.0	14.5	4.4	20.0	6.1
34	2176	4352	8704	12.0	3.7	14.5	4.4	18.5	5.6
39	2496	4992	9987	11.0	3.4	13.0	4.0	17.0	5.2
44	2816	5362	11264	10.0	3.0	12.0	3.7	15.5	4.7
53	3392	6784	13568	9.0	2.7	10.5	3.2	13.5	4.1
73	4672	9344	18688	8.0	2.4	9.5	2.9	12.5	3.8
89	5696	11392	22784	7.0	2.1	8.5	2.6	10.5	3.2
110	7040	14080	28160	6.0	1.8	7.0	2.1	9.0	2.7
125	8000	16000	32000	5.0	1.5	6.0	1.8	7.5	2.3
152	9728	19456	38912	4.0	1.2	4.5	1.4	6.0	1.8
164	10496	20992	41984	3.0	0.9	3.5	1.1	4.5	1.4
198	12792	25584	51168	2.0	0.6	2.5	0.8	3.0	0.9
212	13624	27248	54496	1.0	0.3	1.5	0.5	2.0	0.6

Notes:

- ◆ “2 wire” a N= 64 kbps, for example: 7 N= 448 kbps.
- ◆ “2 wire / 4 wire / 8 wire” content is displayed symmetrically upstream and upstream rate.
- ◆ The performance data above is for reference only, the actual data rate will vary depending on the quality of the copper wire and environment factors.

◆ TCPAM-128

Line Speed	2 wire	4 wire	8 wire	26 AWG/0.4mm		24 AWG/0.5mm		22 AWG/0.65mm	
	N= kbps	kbps	kbps	kft	km	kft	km	kft	km
5	320	640	1280	22.0	6.7	26.5	8.1	34	10.4
6	384	768	1536	21.0	6.4	25.5	7.8	32.5	9.9
8	512	1024	2048	20.0	6.1	24.0	7.3	31.0	9.4
9	576	1152	2304	19.0	5.8	23.0	7.0	29.5	9.0
9	576	1152	2304	18.0	5.5	21.5	6.6	27.5	8.4
12	768	1536	3072	17.0	5.2	20.5	6.2	26.5	8.1
16	1024	2048	4096	16.0	4.9	19.5	5.9	24.5	7.5
20	1280	2560	5120	15.0	4.6	18.0	5.5	23.0	7.0
22	1408	2816	5632	14.0	4.3	16.5	5.0	21.5	6.6
27	1728	3456	6912	13.0	4.0	15.7	4.8	20.0	6.1
34	2176	4352	8704	12.0	3.7	14.5	4.4	18.5	5.6
39	2496	4992	9984	11.0	3.4	13.0	4.0	17.0	5.2
45	2880	5760	11520	10.0	3.0	12.0	3.7	15.5	4.7
53	3392	6784	13568	9.0	2.7	10.5	3.2	13.5	4.1
74	4736	9472	18944	8.0	2.4	9.5	2.9	12.5	3.8
90	5760	11520	23040	7.0	2.1	8.5	2.6	10.5	3.2
112	7168	14336	28672	6.0	1.8	7.0	2.1	9.0	2.7
126	8064	16128	32256	5.0	1.5	6.0	1.8	7.5	2.3
152	9728	19456	38912	4.0	1.2	4.5	1.4	6.0	1.8
167	10688	21376	42752	3.0	0.9	3.5	1.1	4.5	1.4
198	12672	25344	50688	2.0	0.6	2.5	0.8	3.0	0.9
220	14072	28144	56288	1.0	0.3	1.0	0.3	1.5	0.5
239	15288	30576	61152	0.5	0.2	0.5	0.2	1.0	0.3

Notes:

- ◆ “2 wire” a N= 64 kbps, for example: 5 N= 320 kbps.
- ◆ “2 wire / 4 wire / 8 wire” content is displayed symmetrically upstream and upstream rate.
- ◆ The performance data above is for reference only, the actual data rate will vary depending on the quality of the copper wire and environment factors.