

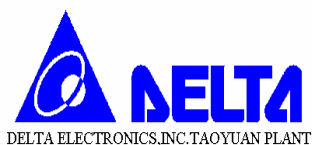
Reliability Test Report

CUSTOMER : METANOIA PART NAME : VDSL Modem ISSUED BY: CPBG QE
 PART NO. : AERO_1.3D Model Name:
 REPORT NO: 07NCS007 TEST PERIOD : 2007/04/12~2007/04/25

NO	TEST ITEM	Condition	Reference	Result	Page																																	
1	Dry Heat Test	Humidity : less than 50% RH Temperature : 85 ± 2 Duration : 96 hours	IEC68-2-2	PASS	2																																	
2	Thermal Shock	Temperature: -40 to 85 Duration : 30 mins for each temp. 5 Cycles	IEC68-2-14	PASS	3																																	
3	Cold Test	Temperature : -40 ± 3 Duration : 96 hours	IEC68-2-1	PASS	4																																	
4	Vibration	1. Frequency : 10 - 500 - 10 Hz 2. Amplitude : 0.75 mm (or 10G) 3. Number of Sweep Cycles per axis:10. 4. Duration : 2 hrs for each X,Y,Z axis	IEC68-2-6	PASS	5																																	
5	Mating/Unmating Force	Mata and unmate connector Rate: 25 ± 6 mm per minute	EN 60603-7	PASS	6																																	
6	Durability	Number of cycle: 750 cycles Rate: 10 cycles per minute	EN 60603-7	PASS	7																																	
7	Composite Temperature / Humidity Cycling Test	<table><thead><tr><th>Temperature</th><th>Humidity</th><th>soak time</th></tr></thead><tbody><tr><td>25~65</td><td>93(+/-3)% RH</td><td>1.5~2.5 Hr</td></tr><tr><td>65</td><td>93(+/-3)% RH</td><td>3 Hr</td></tr><tr><td>65~25</td><td>80~96% RH</td><td>1.5~2.5 Hr</td></tr><tr><td>25~65</td><td>93(+/-3)% RH</td><td>1.5~2.5 Hr</td></tr><tr><td>65</td><td>93(+/-3)% RH</td><td>3 Hr</td></tr><tr><td>65~25</td><td>80~96% RH</td><td>1.5~2.5 Hr</td></tr><tr><td>25</td><td>93(+/-3)% RH</td><td>1~2 Hr</td></tr><tr><td>25~-10</td><td>NA</td><td>0.5 Hr</td></tr><tr><td>-10</td><td>NA</td><td>3 Hr</td></tr><tr><td>-10~25</td><td>80~96% RH</td><td>1.5 Hr</td></tr></tbody></table> Number of cycles : 10	Temperature	Humidity	soak time	25~65	93(+/-3)% RH	1.5~2.5 Hr	65	93(+/-3)% RH	3 Hr	65~25	80~96% RH	1.5~2.5 Hr	25~65	93(+/-3)% RH	1.5~2.5 Hr	65	93(+/-3)% RH	3 Hr	65~25	80~96% RH	1.5~2.5 Hr	25	93(+/-3)% RH	1~2 Hr	25~-10	NA	0.5 Hr	-10	NA	3 Hr	-10~25	80~96% RH	1.5 Hr	IEC68-2-38	PASS	8
Temperature	Humidity	soak time																																				
25~65	93(+/-3)% RH	1.5~2.5 Hr																																				
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-10~25	80~96% RH	1.5 Hr																																				
8	Mechanical Shock	1. 50G, 11ms 2. 3 shocks on each of 6 faces	IEC68-2-27	PASS	9																																	

Tested By : Antony.Tsai

Approved By : Roger.Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Dry Heat Test

Test condition :

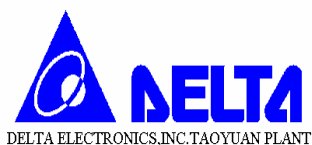
- 1. Temperature : 85**
- 2. Duration : 96 hours**

Test date : 2007/4/12~2007/4/16

Test result : PASS

Tested By : Antony Tsai

Approved By : Roger Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Cold Test

Test condition :

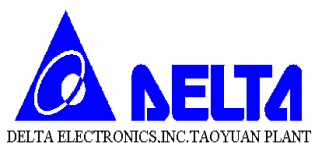
- 1. Temperature : -40**
- 2. Duration : 96 hours**

Test date : 2007/4/19~2007/4/23

Test result : PASS

Tested By : Antony Tsai

Approved By : Roger Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Thermal Shock

Test condition :

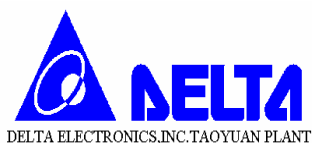
- 1. Temperature : -40/85**
- 2. Soak time : 30 minutes**
- 3. Number of cycles : 5**

Test date : 2007/4/18

Test result : **PASS**

Tested By : Antony Tsai

Approved By : Roger Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Vibration Test

Test condition :

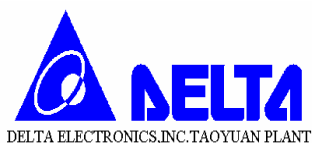
- 1. Frequency : 5~500 Hz**
- 2. Amplitude : 0.75mm (or 10G)**
- 3. Duration : 2 hours for each X,Y,Z axes**

Test date : 2007/4/25

Test result : PASS

Tested By : Antony Tsai

Approved By : Roger Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Mating/Unmating Force (RJ-45 module jack)

Test condition :

- 1. Insertion force : 20N max (2041g max)**
- 2. Removal force : 20N max (2041g max)**

Test date : 2007/4/13

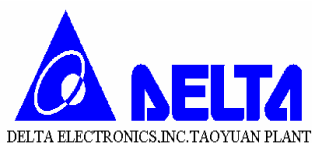
Test data :

Item No.	Pull (g)	Push (g)
1	1377	1157
2	1708	1322
3	1763	1322

Test result : PASS

Tested By : Antony Tsai

Approved By : Roger Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Durability RJ-45 module jack

Test condition :

- 1. Mate connectors and up to 750 cycles**
- 2. At a maximum rate of 10 cycles per minutes**

Test date : 2007/4/13

Test result : PASS

Tested By : Antony Tsai

Approved By : Roger Lu

Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Composite Temperature/Humidity Cycling Test

Test condition :

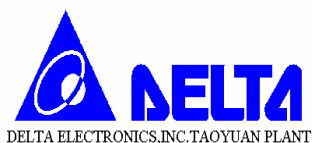
Temp.	Humidity	soak time
25 ~ 65	93 (+/- 3) % RH	1.5 ~ 2.5 Hr
65	93 (+/- 3) % RH	3 Hr
65 ~ 25	80 ~ 96 % RH	1.5 ~ 2.5 Hr
25 ~ 65	93 (+/- 3) % RH	1.5 ~ 2.5 Hr
65	93 (+/-3) % RH	3 Hr
65 ~ 25	80 ~ 96 % RH	1.5 ~ 2.5 Hr
25	93 (+/-3) % RH	1 ~2 Hr
25 ~ -10	NA	0.5 Hr
-10	NA	3 Hr
-10 ~ 25	80 ~ 96 % RH	1.5 Hr

Number of cycles: 10

Test result : **PASS**

Tested By : Antony Tsai

Approved By : Roger Lu



Electrical performance test record

Customer : METANOIA

P/N : AERO 1.3D

Sample Size : 3 pcs

Test item : Mechanical Shock

Test condition :

- 1. 50G, 11ms**
- 2. 3 shocks on each of 6 faces**

Test date : 2007/4/24

Test result : PASS

Tested By : Antony Tsai

Approved By : Roger Lu