ISO/IEC17025 Accredited Lab.

FCC ID
TEST REPORT

for

OTT

MODEL: 1OTT

Trade Mark: N/A

FCC ID: 2AACA1OTT

Test Report Number: 1306001498F2

Issued Date: Dec. 21, 2013

Issued for:

Syabas Technology Hong Kong, Limited

FLAT/RM 316A 3/F , ENTERPRISE PLACE PHASE ONE HONG KONG SCIENCE PARK PAK SHEK KOK TAI PO NT HONG KONG

Issued By:

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD.

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1 TEST CERTIFICATION

Product:	OTT
Model:	1OTT
Trade Mark	N/A
Applicant:	**Syabas Technology Hong Kong, Limited** FLAT/RM 316A 3/F , ENTERPRISE PLACE PHASE ONE HONG KONG SCIENCE PARK PAK SHEK KOK TAI PO NT HONG KONG
Manufacturer:	**Syabas Technology Hong Kong, Limited** FLAT/RM 316A 3/F , ENTERPRISE PLACE PHASE ONE HONG KONG SCIENCE PARK PAK SHEK KOK TAI PO NT HONG KONG
Tested:	Dec. 5, 2013 ~ Dec. 18, 2013
Test Voltage:	DC 5V (Adapter Input AC 120V/60Hz)
Applicable Standards:	OET Bulletin 65 ANSI C63.4:2003

The above equipment has been tested by SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: ***Date:*** ***2013-12-21***

(Brown Lu)

Check By: ***Date:*** ***2013-12-21***

(Terry Tang)

Approved By: ***Date:*** ***2013-12-21***

(Jack Chung)

2 EUT DESCRIPTION

Product	OTT
Trade Mark	N/A
Model	1OTT
Applicant	Syabas Technology Hong Kong, Limited
EUT Type	☒ Engineering Sample. ☐ Product Sample, ☐ Mass Product Sample.
Serial Number	N/A
Antenna Type	PCB Antenna
Antenna Gain	1dBi
EUT Power Rating	DC 5V Adapter: RG05U-CE Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0V 1A
Temperature Range(Operating)	-10~50℃
Operating Frequency (WIFI)	802.11b/g/n-HT20: 2412MHz - 2462MHz
Type of Modulation	CCK, DQPSK, DBPSK for DSSS BPSK, QPSK, 16QAM and 64QAM for OFDM
Number of Channels	802.11b/g/n-HT20: 11 channels
Data rate	802.11b: 1-11Mbps 802.11g: 6-54Mbps 802.11n-20M: 6.5-72.2Mbps

Note: N/A stand for no applicable.

3. Maximum permissible exposure

3.1 applicable standard

Systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy levels in excess limit for manximun permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J,section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(A)Limits for Occupational/Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|², |H|² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	F/300	6
1500-100,000	-	-	5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|², |H|² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	F/1500	30
1500-100,000	-	-	1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

3.2 MPE Calculation Method

E (V/m) = $\frac{\sqrt{30 \times P \times G}}{d}$ Power Density: *Pd* (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Average RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = $\frac{30 \times P \times G}{377 \times d^2}$

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

3.3 Calculated Result and Limit

Antenna Type: PCB Antenna

Antenna Gain: 1dBi

Max conducted output power: 16.78dBm (refer to Page 45 of Report: **1306001498F2F1)**

Antenna Gain (numeric)	Peak Output Power(dBm)	Peak Output Power（mW）	Power Density(s) (mW/cm^2)	Limit of Power Density(s) (mW/cm^2)	Test Result
1.26	16.78	47.64	0.012	1.0	Compliance