

RF EXPOSURE REPORT

REPORT NO.: SA121120C26

MODEL NO.: FPA16242T

FCC ID: D6XFPA16242T

RECEIVED: Nov. 20, 2012

TESTED: Nov. 27 ~ Dec. 05, 2012

ISSUED: Dec. 11, 2012

APPLICANT: TECOM CO., LTD

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INDUSTRIAL PARK HSINCHU, TAIWAN, R.O.C.

ISSUED BY: Bureau Veritas Consumer Products Services
(H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA121120C26	Original release	Dec. 12, 2012

1. CERTIFICATION

PRODUCT: 3G Small Cell

MODEL NO.: FPA16242T

BRAND: NEC

APPLICANT: TECOM CO., LTD

TEST SAMPLE: ENGINEERING SAMPLE

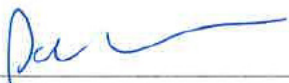
TESTED: Nov. 27 ~ Dec. 05, 2012

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: FPA16242T) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE** : Dec. 11, 2012
Pettie Chen / Senior Specialist

APPROVED BY :  , **DATE** : Dec. 11, 2012
Anderson Chiu / Senior Engineer

2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	ERP (dBm)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
871.4MHz ~ 891.6MHz	22.82	24.97	20	0.062	0.581

FREQUENCY BAND (MHz)	EIRP (dBm)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
1932.4MHz ~ 1987.6MHz	25.16	20	0.065	1