



RF EXPOSURE REPORT

REPORT NO.: SA120724E01C

MODEL NO.: DIR-645L

FCC ID: KA2IR645LA1

RECEIVED: July 24, 2012

TESTED: July 26, 2012

ISSUED: Feb. 20, 2013

APPLICANT: D-Link Corporation

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

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120724E01C	Original release	Feb. 20, 2013

1. CERTIFICATION

PRODUCT: Wireless N300 Gigabit Cloud Router with SmartBeam™ Technology

BRAND NAME: D-Link

MODEL NO.: DIR-645L

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: D-Link Corporation

TESTED DATE: July 26, 2012

STANDARDS: FCC Part 2 (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: DIR-645L) 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:** Feb. 20, 2013
(Lori Chung, Specialist)

APPROVED BY : , **DATE:** Feb. 20, 2013
(May Chen, Deputy Manager)

2. RF EXPOSURE LIMIT

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

3. 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

4. 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**.

5. ANTENNA GAIN

Antenna	Manufacture	Model name	Antenna Gain (dBi)	Frequency range (MHz to MHz)	Antenna Type	Connector
1	MEDIATEK	NA	3.33	2400~2483.5	PIFA	NA
2	MEDIATEK	NA	5.30	2400~2483.5	PIFA	NA
3	MEDIATEK	NA	3.76	2400~2483.5	PIFA	NA
4	MEDIATEK	NA	5.23	2400~2483.5	PIFA	NA
5	MEDIATEK	NA	4.87	2400~2483.5	PIFA	NA
6	MEDIATEK	NA	4.92	2400~2483.5	PIFA	NA

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm ²)	LIMIT (mW/cm ²)
2412-2462	307.869	5.30	20	0.20754	1

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