

RF EXPOSURE REPORT

REPORT NO.: SA120908C02

MODEL NO.: DIR-836LMO1

FCC ID: KA2IR836LMO1

RECEIVED: Sep. 04, 2012

TESTED: Sep. 04 ~ Oct. 08, 2012

ISSUED: Oct. 11, 2012

APPLICANT: D-Link Corporation

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED	
SA120908C02	Original release	Oct. 11, 2012	

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1. CERTIFICATION

PRODUCT: IEEE 802.11a/n Wireless PCIe Module

MODEL: DIR-836LMO1

BRAND: D-Link

APPLICANT: D-Link Corporation

TESTED: Sep. 04 ~ Oct. 08, 2012

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 2 (Section 2.1091)

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

IEEE C95.1

The above equipment (Model: DIR-836LMO1) 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 : _____ Oct. 11, 2012

Pettie Chen / Senior Specialist

APPROVED BY : Cot. 11, 2012

Ken Liu / Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY ELECTRIC FIELD STRENGTH (V/m)		MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	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

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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)	MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
	802.11a	13.48	0	20	0.0044	1
5180-5240	802.11n (20MHz)	13.39	4.77	20	0.0130	1
	802.11n (40MHz)	16.30	4.77	20	0.0255	1
	802.11a	19.48	0	20	0.0176	1
5745-5825	802.11n (20MHz)	25.10	4.77	20	0.1931	1
	802.11n (40MHz)	25.00	4.77	20	0.1888	1

5.0GHz:

802.11n(20MHz) / (40MHz) : Directional gain = 0dBi + 10log(3) = 4.77dBi