

RF EXPOSURE REPORT

Applicant	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong.

Manufacturer or Supplier	Asian Express Holdings Limited
Address	RM1702, Sino Centre, 582-592 Nathan Road, Mongkok, Kowloon, Hong Kong.
Product	AeroX/ Ultra-X/SWITCH
Brand Name	PROPEL
Model	CT-1973
Additional Model & Model Difference	PL-1780, PL-1781, PL-1782, PL-1783, PL-1784, PL-1785, PL-1786, PL-1787, PL-1788, PL-1789, VL-3660, VL-3661, VL-3662, KH-2165
Date of tests	May 25. 2018 ~ Jul. 10. 2018

☒ **FCC Part 2 (Section 2.1091)**

☒ **KDB 447498 D01**

☒ **IEEE C95.1**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Breeze Jiang Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	 Date: Jul. 11. 2018

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Test Report No.: FM180524N068

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM180524N068	Original release	Jul. 11. 2018

1. CERTIFICATION

FCC ID:	VLECT-1973R
PRODUCT:	AeroX/ Ultra-X/SWITCH
BRAND NAME:	PROPEL
MODEL NO.:	CT-1973
ADDITIONAL NO.:	PL-1780, PL-1781, PL-1782, PL-1783, PL-1784, PL-1785, PL-1786, PL-1787, PL-1788, PL-1789, VL-3660, VL-3661, VL-3662, KH-2165
TEST SAMPLE:	Engineering Sample
APPLICANT:	Asian Express Holdings Limited
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1

Note: Additional models (see above table) are identical with the test model CT-1973 except the model number for trading purpose.

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

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	2	Wire Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2417	11	+/-2	9	13
802.11g	2417	10	+/-2	8	12
802.11n(HT20)	2417	10	+/-2	8	12

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2417	11.37
802.11g	2417	10.83
802.11n(HT20)	2417	10.11

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2417	13	2	20	0.00629	1.0

--- END ---