

FCC RF EXPOSURE REPORT

For

In-cab advanced telematics tracker

MODEL NUMBER: FT750-L430-GL

FCC ID: 2AP3PFT750

REPORT NUMBER: 4789043452.2-4

ISSUE DATE: June 5, 2019

Prepared for

Flex Industrial, Ltd.
Level 3, Alexander House, 35 Cybercity, Ebene, Mauritius

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone, Dongguan, People's Republic of China

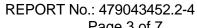
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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	07/05/2019	Initial Issue	





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1. ATTESTATION OF TEST RESULTS

Applicant In	formation
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Company Name: Flex Industrial, Ltd.

Address: Level 3, Alexander House, 35 Cybercity, Ebene, Mauritius

Manufacturer Information

Company Name: Flex Industrial, Ltd.

Level 3, Alexander House, 35 Cybercity, Ebene, Mauritius Address:

EUT Description

EUT Name: In-cab advanced telematics tracker

Model: FT750-L430-GL

Sample Status: Normal Sample ID: 2361606 June 14, 2019 Sample Received Date: Date of Tested: June 19 ~ 28, 2019

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC 47CFR§2.1091

Complies

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KDB-447498 D01 V06

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

3. FACILITIES AND ACCREDITATION

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	A2LA (Certificate No.: 4102.01)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with A2LA.
	FCC (FCC Designation No.: CN1187)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	Has been recognized to perform compliance testing on equipment subject
	to the Commission's Delcaration of Conformity (DoC) and Certification
	rules
Accreditation	IC(Company No.: 21320)
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Commodic	has been registered and fully described in a report filed with
	Industry Canada. The Company Number is 21320.
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
	has been assessed and proved to be in compliance with VCCI, the
	Membership No. is 3793.
	Facility Name:
	Chamber D, the VCCI registration No. is G-20019 and R-20004
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011

Note:

- All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
- 2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
- 3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

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4. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

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/f2)*	30		
30-300	27.5	0.073	0.2	30		
300-1500			f/150	30		
1500-100,000			1.0	30		

Note 1: f = frequency in MHz, * means Plane-wave equivalent power density

Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Note 3: The limit value 1.0mW/cm² is available for this EUT.

MPE CALCULATION METHOD

 $S = PG/(4\pi R^2)$

where: S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)



CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

2.4G WIFI Mode (Worst case)						
Operating	Max. Tune up Power	Antenna Gain		Power density	Limit	
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)		
802.11b	20	1.0	1.26	0.0250	1	

BLE Mode (Worst case)						
Operating	Max. Tune up Power	r Antenna Gain		Power density	Limit	
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)		
GFSK	3	1.0	1.26	0.0005	1	

LTE/WCDMA Mode (Worst case)						
Operating	Max. Tune up Power	Antenna Gain		Power density	Limit	
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)		
LTE Band 12	25	2.5	1.78	0.1119	0.466	

Note 1: The calculated distance is 20cm.

Note 2: All the modes had been tested, but only the worst case recorded in the report.

Note 3: All of transmitters of the EUT can transmit simultaneously, so the combined power

density is 0.0250+0.0005+0.1119=0.1374mW/cm² less than 0.466.

Note 4: Calculate by Worst-case mode.

Note 5: The max. total power is < 30dBm

END OF REPORT