Report on the FCC and IC Testing of the

Paxton Access Ltd Access Reader, Model: Entry Touchpanel

In accordance with FCC 47 CFR Part 15B and Industry Canada RSS-GEN

Prepared for: Paxton Access Ltd

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FCC ID: USE377620A IC: 10217A-377620A



COMMERCIAL-IN-CONFIDENCE

Date: June 2018

Document Number: 75942506-01 | Issue: 01

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Project Management	Natalie Bennett	27 June 2018	Nones
Authorised Signatory	Kim Archer	27 June 2018	KLACON

Signatures in this approval box have checked this document in line with the requirements of TÜV SÜD Product Service document control rules.

ENGINEERING STATEMENT

The measurements shown in this report were made in accordance with the procedures described on test pages. All reported testing was carried out on a sample equipment to demonstrate limited compliance with FCC 47 CFR Part 15B and Industry Canada RSS-GEN. The sample tested was found to comply with the requirements defined in the applied rules.

RESPONSIBLE FOR	NAME	DATE	SIGNATURE
Testing	Graeme Lawler	27 June 2018	GeNawler.

FCC Accreditation Industry Canada Accreditation

90987 Octagon House, Fareham Test Laboratory IC2932B-1 Octagon House, Fareham Test Laboratory

EXECUTIVE SUMMARY

A sample of this product was tested and found to be compliant with FCC 47 CFR Part 15B: 2017 and Industry Canada RSS-GEN: Issue 04 (2014-11).



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1 Report Summary

1.1 Report Modification Record

Alterations and additions to this report will be issued to the holders of each copy in the form of a complete document.

Issue	ue Description of Change	
1	First Issue	27 June 2018

Table 1

ANSI C63.4: 2014

1.2 Introduction

Applicant Paxton Access Ltd

Manufacturer Paxton Access Ltd

Model Number(s) Entry Touchpanel

Serial Number(s) Not Serialised (75942506-TSR0002)

Hardware Version(s) z-n2erv

Software Version(s) 2.19.7707.0

Number of Samples Tested 1

Test Specification/Issue/Date FCC 47 CFR Part 15B:2017

Industry Canada RSS-GEN: Issue 04 (2014-11)

Order Number 174737
Date 18-April-2018

Date of Receipt of EUT 12-June-2018

Start of Test 13-June-2018

Finish of Test 13-June-2018

Name of Engineer(s) Graeme Lawler

Related Document(s)



1.3 Brief Summary of Results

A brief summary of the tests carried out in accordance with FCC 47 CFR Part 15B and Industry Canada RSS-GEN is shown below.

Section	Specificati	on Clause	Test Description	Result	Comments/Base Standard
	Part 15B	RSS-GEN			
Configuration and Mode: Idle					
2.1	15.109	7.1	Radiated Disturbance	Pass	ANSI C63.4: 2014

Table 2

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1.4 Application Form

	MAIN EUT			
MANUFACTURING DESCRIPTION	Entry Touchpanel			
MANUFACTURER	Paxton Access Ltd			
MODEL NAME/NUMBER	Entry Touchpanel 337-620			
PART NUMBER	337-620			
SERIAL NUMBER	Not Serialised			
HARDWARE VERSION	z-n2erv			
SOFTWARE VERSION	2.19.7707.0			
SOI IWARE VERSION	The Touchpanel is powered by an external PoE (IE	EEE 802 3af)		
PSU VOLTAGE/FREQUENCY/CURRENT	PSU			
HIGHEST INTERNALLY GENERATED / USED FREQUENCY	2485 MHz			
FCC ID (if applicable)	USE377620A			
INDUSTRY CANADA ID (if applicable)	10217A-377620A			
TECHNICAL DESCRIPTION	The Entry panel is used as part of an access contro	ol system		
(a brief description of the intended use and	and will be the first point of contact for a visitor to a	premises or		
operation)	entranceway allowing them to gain communication	with the		
operation)	occupant so that they may then be allowed entrand	ce		
COUNTRY OF ORIGIN	United Kingdom			
RF CHAR	ACTERISTICS (if applicable)			
TRANSMITTER FREQUENCY	125kHz and 13.56MHz (RFID) and Bluetooth 2402	2 and		
OPERATING RANGE (MHz)	2480MHz			
RECEIVER FREQUENCY OPERATING	AL/A			
RANGE (MHz)	N/A			
INTERMEDIATE FREQUENCIES	N/A			
EMISSION DESIGNATOR(S):	·			
(i.e. G1D, GXW)	G1D			
MODULATION TYPES:				
(i.e. GMSK, QPSK)				
OUTPUT POWER (W or dBm)	<1mW			
SEPARATE BATT	ERY/POWER SUPPLY (if applicable)			
MANUFACTURING DESCRIPTION	TP Link PoE Module			
MANUFACTURER	TP Link			
TYPE	8 Port 10/100Mbps Desktop PoE Switch			
PART NUMBER	TL-SF-1008P			
PSU VOLTAGE/FREQUENCY/CURRENT	Input 115V/240V - Output 48Vdc			
COUNTRY OF ORIGIN	China			
	DULES (if applicable)			
MANUFACTURING DESCRIPTION				
MANUFACTURER				
TYPE				
POWER				
FCC ID				
INDUSTRY CANADA ID EMISSION DESIGNATOR				
DHSS/FHSS/COMBINED OR OTHER				
COUNTRY OF ORIGIN				
	ILLARIES (if applicable)			
MANUFACTURING DESCRIPTION				
MANUFACTURER				
TYPE				
PART NUMBER				
SERIAL NUMBER				
COUNTRY OF ORIGIN				

I hereby declare that the information supplied is correct and complete.

Name: Walter Riche Position held: Compliance Engineer

Date: 08/06/2018



1.5 Product Information

1.5.1 Technical Description

The Entry panel is used as part of an access control system and will be the first point of contact for a visitor to a premises or entranceway allowing them to gain communication with the occupant so that they may then be allowed entrance.

1.6 Deviations from the Standard

No deviations from the applicable test standard were made during testing.

1.7 EUT Modification Record

The table below details modifications made to the EUT during the test programme. The modifications incorporated during each test are recorded on the appropriate test pages.

Modification State	Description of Modification still fitted to EUT	Modification Fitted By	Date Modification Fitted			
Serial Number: Not	Serial Number: Not Serialised (75942506-TSR0002)					
0	As supplied by the customer	Not Applicable	Not Applicable			

Table 3

1.8 Test Location

TÜV SÜD Product Service conducted the following tests at our Fareham Test Laboratory.

Test Name	Name of Engineer(s)	Accreditation		
Configuration and Mode: Idle				
Radiated Disturbance	Graeme Lawler	UKAS		

Table 4

Office Address:

Octagon House Concorde Way Segensworth North Fareham Hampshire PO15 5RL United Kingdom



2 Test Details

2.1 Radiated Disturbance

2.1.1 Specification Reference

FCC 47 CFR Part 15B, Clause 15.109 Industry Canada RSS-GEN, Clause 7.1

2.1.2 Equipment Under Test and Modification State

Entry Touchpanel, S/N: Not Serialised (75942506-TSR0002) - Modification State 0

2.1.3 Date of Test

13-June-2018

2.1.4 Test Method

Testing was performed in accordance with ANSI C63.4 clause 8

2.1.5 Environmental Conditions

Ambient Temperature 21.4 °C Relative Humidity 51.9 %

2.1.6 Test Results

Results for Configuration and Mode: Idle.

Performance assessment of the EUT made during this test: Pass.

Detailed results are shown below.

Highest frequency generated or used within the EUT: 2485 MHz Which necessitates an upper frequency test limit of: 13 GHz



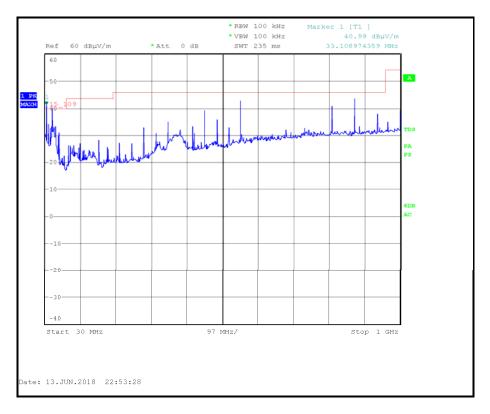


Figure 1 - Pre - Scan Graphical Results - 30 MHz to 1 GHz - Combined Polarity

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
33.253	39.80	40.0	-0.2	3	1.00	Vertical
39.326	32.31	40.0	-7.7	028	1.00	Vertical
465.641	39.05	46.0	-7.0	358	1.00	Vertical
563.189	43.00	46.0	-3.0	122	1.00	Vertical
813.462	45.72	46.0	-0.3	185	1.00	Vertical
813.462	39.91	46.0	-6.1	192	1.00	Horizontal
875.050	40.85	46.0	-5.1	206	1.94	Vertical

Table 5 - 30 MHz to 1 GHz

Quasi Peak final results for 30MHz to 1GHz were performed with a RBW of 120 kHz.



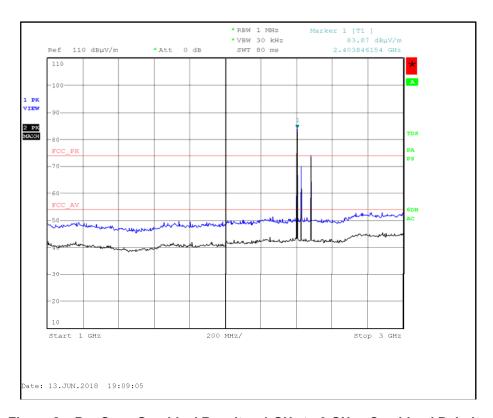


Figure 2 - Pre-Scan Graphical Results - 1 GHz to 3 GHz - Combined Polarity

The emissions seen in 2.4 GHz band are the EUT's intentional transmitter frequencies and are therefore not subject to this test.

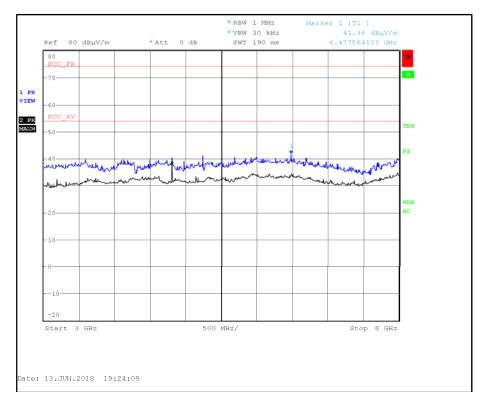


Figure 3 - Pre-Scan Graphical Results - 3 GHz to 8 GHz - Combined Polarity



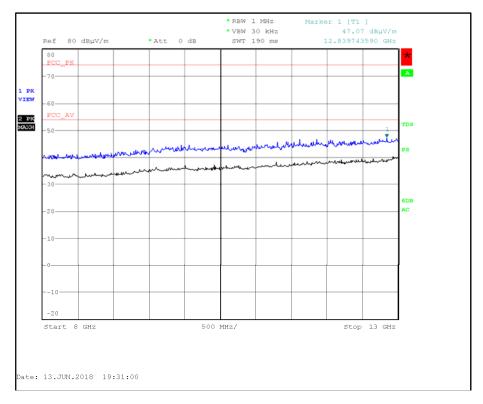


Figure 4 - Pre-Scan Graphical Results - 8 GHz to 13 GHz - Combined Polarity

Frequency (MHz)	QP Level (dBuV/m)	QP Limit (dBuV/m)	QP Margin (dBuV/m)	Angle(Deg)	Height(m)	Polarity
*						

Table 6 - 1 GHz to 13 GHz

*No emissions were detected within 10 dB of the limit.



2.1.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5.

Instrument	Manufacturer	Type No	TE No	Calibration Period (months)	Calibration Due
Screened Room (5)	Rainford	Rainford	1545	36	09-Jun-2018
Turntable Controller	Inn-Co GmbH	CO 1000	1606	-	TU
Antenna (Bilog)	Chase	CBL6143	2904	24	08-Aug-2019
Comb Generator	Schaffner	RSG1000	3034	-	TU
EMI Test Receiver	Rohde & Schwarz	ESU40	3506	12	22-Nov-2018
Suspended Substrate Highpass Filter	Advance Power Components	11SH10- 3000/X18000-O/O	4412	12	24-Apr-2018
Cable (Rx, Nm-Nm, 7m)	Scott Cables	SLU18-NMNM- 07.00M	4498	6	19-Jun-2018
Cable (Rx, Km-Km 2m)	Scott Cables	KPS-1501-2000- KPS	4526	6	02-Jul-2018
Cable (Rx, SMAm-SMAm 0.5m)	Scott Cables	SLSLL18-SMSM- 00.50M	4528	6	15-Aug-2018
Double Ridged Waveguide Horn Antenna	ETS-Lindgren	3117	4722	12	01-Mar-2019
Mast Controller	Maturo Gmbh	NCD	4810	-	TU
Tilt Antenna Mast	Maturo Gmbh	TAM 4.0-P	4811	-	TU
Double Ridge Broadband Horn Antenna	Schwarzbeck	BBHA 9120 B	4848	12	12-Feb-2019
4dB Attenuator	Pasternack	PE7047-4	4935	12	28-Nov-2018
Hygrometer	Rotronic	HP21	4989	12	26-Apr-2019

Table 7

TU - Traceability Unscheduled



3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

Test Name	Measurement Uncertainty
Radiated Disturbance	30 MHz to 1 GHz, Bilog Antenna, ±5.2 dB 1 GHz to 40 GHz, Horn Antenna, ±6.3 dB

Table 8