

UMS SUMMARY TEST REPORT

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ISSUED BY:
CRANAGE EMC TESTING LIMITED
WALLACE WAY
TERN VALLEY BUSINESS PARK
MARKET DRAYTON
SHROPSHIRE, TF9 3AG



Report No: **U0087R** Date of Issue: **6th April 2018**

This document summarises the results of testing to ascertain the appropriate Elexon Charge Codes for inclusion in BSCP520

Tested & Inspected for: **Ruckus Wireless
Neptune House
Mercury Park
Wooburn Green
HP10 0HH**

Test Dates: **4th April 2018 – 5th April 2018**
Receipt Date of Test Item: **7th March 2018**

Sample 1

Test Item Description: **12-Port Entry-Level Enterprise-Class Stackable Access Switch**
Manufacturer: **Ruckus Wireless**
Model Number: **ICX 7150-C12P-2X1G**
Serial Number: **FEK3201P0E7**

Sample 2

Test Item Description: **12-Port Entry-Level Enterprise-Class Stackable Access Switch**
Manufacturer: **Ruckus Wireless**
Model Number: **ICX 7150-C12P-2X1G**
Serial Number: **FEK3201P0F0**

Sample 3

Test Item Description: **12-Port Entry-Level Enterprise-Class Stackable Access Switch**
Manufacturer: **Ruckus Wireless**
Model Number: **ICX 7150-C12P-2X1G**
Serial Number: **FEK3201P0GP**

Sample 4

Test Item Description: **12-Port Entry-Level Enterprise-Class Stackable Access Switch**
Manufacturer: **Ruckus Wireless**
Model Number: **ICX 7150-C12P-2X1G**
Serial Number: **FEK3201P0FN**

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Sample 5

Test Item Description:	12-Port Entry-Level Enterprise-Class Stackable Access Switch
Manufacturer:	Ruckus Wireless
Model Number:	ICX 7150-C12P-2X1G
Serial Number:	FEK3201P0GV

Approved Signatories: M. Richens - Technical Director


APPROVED SIGNATORY

Verification Signatories: K. Richens – Managing Director


VERIFICATION SIGNATORY

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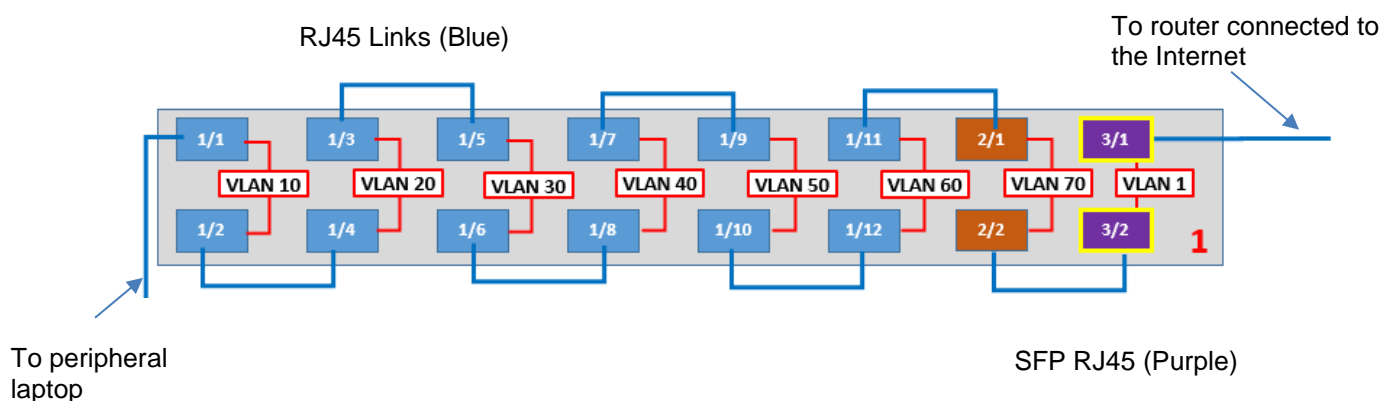
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Mode of Operation 1: Quiescent state as a standalone unit, with no traffic conditions set through the switch. No RJ45 or SFP connections made to the switch, only the AC IEC input cable connected. PoE+ functionality was disabled by the customer and therefore this report does not cover measurements with this particular mode active. The customer declared that PoE+ would not be used for the deployment of these units for which the charge code is being obtained for.

Mode of Operation 2: Maximum traffic conditions set with the following ports loaded as show below. An off the shelf laptop was used to stream HD video through the switch throughout this mode. PoE+ functionality was disabled by the customer and therefore this report does not cover measurements with this particular mode active. The customer declared that PoE+ would not be used for the deployment of these units for which the charge code is being obtained for.



Test Condition: - Stabilisation period of 30 minutes given prior to measurements at 230V 50Hz. Measurements were subsequently taken after 5 minutes at each voltage level. This was found to be an adequate time window for the purpose of the test measurements.

All results are rounded to 2 decimal places.

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Mode 1

Watts					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	17.57	17.90	17.80	17.60	17.91
220	17.61	17.94	17.86	17.67	17.98
230	17.67	17.99	17.92	17.74	18.04
240	17.66	18.04	17.99	17.81	18.11
250	17.71	18.10	18.02	17.87	18.16

VA					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	44.02	39.06	43.62	43.76	43.77
220	47.81	41.78	46.21	46.39	46.39
230	50.62	44.31	48.73	48.99	48.96
240	52.13	46.08	51.15	51.53	51.46
250	54.57	47.88	53.51	53.96	53.88

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Mode 2

Watts					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	22.33	22.65	22.51	22.52	22.65
220	22.40	22.74	22.61	22.57	22.76
230	22.44	22.83	22.69	22.60	22.86
240	22.48	22.92	22.77	22.66	22.96
250	22.55	22.99	22.85	22.71	23.04

VA					
Voltage (Vrms)	Sample No.				
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
210	47.14	45.50	46.69	46.89	46.90
220	49.80	49.10	49.30	49.58	49.54
230	52.37	51.66	51.85	52.20	52.12
240	54.90	54.10	54.38	54.73	54.60
250	57.23	56.42	56.66	57.10	56.94

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Ambient temperature range recorded during test period:
18.0°C

Test Equipment

Asset Number	Description	Calibration Date	Calibration Due
AN288	Power Source	-	-
AN1162	Power Analyser	14/09/2017	-

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Photographs of the Test Item



Above: Mode 1 Shown

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Above: Mode 2 Shown

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Measurement Uncertainty

The 95 % confidence measurement uncertainty for AC Power (Analyser) is 0.17%.

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