

RF Exposure Report

Project Number: 4222155

Report Number: 4222155EMC11

Revision: 0

Client: Tyco Safety Products/Sensormatic

Equipment Under Test: Business Intelligence Accessory

Models: BIX1000

FCC ID: BVCBIX1000

Applicable Standards: 47 C.F.R. §§ 2.1091 and 2.1093; FCC KDB 447498

FCC OET Bulletin 65 Supplement

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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1 General Information

1.1 Client Information

Name: Tyco Retail Solutions
Address: 6600 Congress Avenue
City, State, Zip, Country: Boca Raton, FL 33487, USA

1.2 Test Laboratory

Name: SGS North America, Inc.
Address: 620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country: Suwanee, GA 30024, USA

Accrediting Body: A2LA
Type of lab: Testing Laboratory
Certificate Number: 3212.01

1.3 General Information of EUT

Type of Product: Business Intelligence Accessory
Model Numbers: BIX1000
Serial Number: Not Labeled

Frequency Range: 2405-2475MHz
Modulation: 802.15.4
Antenna: 2.04dBi Chip or optional external monopole (3.8dBi Max)

Rated Voltage: P.O.E.
Test Voltage: P.O.E.

Sample Received Date: 20 October 2017
Dates of testing: 23 October to 31 October 2017

1.4 Operating Modes and Conditions

For this assessment, the EUT's maximum measured conducted power and ERP/EIRP were considered.

2 RF Exposure

2.1 Test Result

Test Description	Product Specific Standard	Test Result
RF Exposure	FCC Part 1.1310	Compliant

2.2 Test Method

Using the maximum measured conducted power and ERP/EIRP with provided antenna gains, the power density was calculated.

2.3 Single transmission RF Exposure Levels

Band of Operation		Conducted Power w/tolerance dBm	Antenna Gain	Cable Loss	Average EIRP		Distance (R) cm	Power Density EIRP _{avg} /(4πR ²) mW/cm ²	FCC mW/cm ²	% of Limit	Verdict
Type	MHz				dBm	mW					
802.15.4	2400-2483.5	19.4	3.8	0.0	23.2	210	20	0.042	1.00	4%	Pass

Note: Certified model BIM1000 (FCC ID: BVCBIM1000) was used for conducted power measurements. RF circuitry and layout are identical. Worst-case antenna gain used for RF exposure calculations.