

# RF Exposure Report

**Project Number:** 4222155

**Report Number:** 4222155EMC08

**Revision:** 0

**Client:** Tyco Safety Products/Sensormatic

**Equipment Under Test:** Business Intelligence Module

**Model:** BIM1000

**FCC ID:** BVCBIM1000

**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: Anti-theft Controller  
Model Number: BIM1000  
Serial Number: Not Labeled

Frequency Range: 2405-2475MHz  
Modulation: 802.15.4  
Antenna: 3.8dBi monopole

Rated Voltage: 18VDC 1.7A  
Test Voltage: 18VDC 1.7A

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	Antenna Gain	Cable Loss	Average EIRP		Distance (R)	Power Density EIRP <sub>avg</sub> /(4πR <sup>2</sup> )	FCC	% of Limit	Verdict
Type	MHz	dBm			dBm	mW	cm	mW/cm <sup>2</sup>	mW/cm <sup>2</sup>		
WLAN 2.4	2400-2483.5	14.6	3.8	0.0	18.4	70	20	0.014	1.00	1%	Pass
802.15.4	2400-2483.5	19.4	3.8	0.0	23.2	210	20	0.042	1.00	4%	Pass
Bluetooth	2400-2483.5	2.3	1.6	0.0	3.9	2	20	0.000	1.00	0%	Pass

### 2.4 Simultaneous transmission RF Exposure Levels

	WLAN 2.4	802.15.4	Bluetooth
WLAN 2.4		6%	1%
802.15.4	6%		4%
Bluetooth	1%	4%	

Expressed as a percentage of the limit. Color is only used to identify worst-case.