

# RF Exposure Evaluation Report

Product Name : Data Collector

Model No. : PI-1060

FCC ID : NBF-PI-1X60

Applicant : Argox Information Co.,Ltd.

Address : 7F., No.126, Ln. 235, Baociao Rd., Xindian Dist.,  
New Taipei City 231, Taiwan (R.O.C.)

Date of Receipt : Mar. 30, 2018

Date of Declaration : Aug. 14, 2018

Report No. : 1850384R-SAUSP03V00

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Issued Date: Aug. 14, 2018

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Product Name	Data Collector
Applicant	Argox Information Co.,Ltd.
Address	7F., No.126, Ln. 235, Baociao Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)
Manufacturer	Argox Information Co.,Ltd.
Model No.	PI-1060
FCC ID.	NBF-PI-1X60
Trade Name	ARGOX
Applicable Standard	FCC 47 CFR 1.1307 KDB 447498 D01 v06
Test Result	Complied

Documented By :



( Senior Adm. Specialist / Joanne Lin )

Tested By :



( Senior Engineer / Wen Lee )

Approved By :



( Director / Vincent Lin )

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	Data Collector
Trade Name	ARGOX
Model No.	PI-1060
FCC ID.	NBF-PI-1X60
Frequency Range	BT: 2402 – 2480MHz SUB-1G: 902.8- 927.2MHz
Channel Number	BT: 79CH SUB-1G: 7CH
Type of Modulation	BT: FHSS: GFSK(1Mbps) / $\pi$ /4DQPSK(2Mbps) / 8DPSK(3Mbps) SUB-1G: 2-GFSK
Antenna Type	PIFA Antenna / Print on PCB Antenna
Antenna Gain	Refer to the table “Antenna List”

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Auden	BT-0911	PIFA Antenna	-1.26dBi in 2.4 GHz
2	Cingxin	PI-1060	Print on PCB Antenna	-3.44dBi for 900-928 MHz

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ( $\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$ ), SAR is required as shown in the table below where calculated values are greater than 3.0:

#### 1.) BT:

Operation frequency = 2450MHz and antenna separation distance = 5mm,

Body SAR Test Exclusion Threshold = 10mW

Frequency Band	Maximum peak output power		Body SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 3.0$ SAR is not required)
	(dBm)	(mW)	(mW)	
2402MHz	3.82	2.41	10	0.747

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 1850384R-RFUSP23V00 from the DEKRA.

#### 2.) SUB-1G:

Operation frequency = 900MHz and antenna separation distance = 5mm,

Limbs SAR Test Exclusion Threshold = 40mW

Frequency Band	Maximum peak output power		Limbs SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 7.5$ SAR is not required)
	(dBm)	(mW)	(mW)	
902.8	14.49	28.12	40	5.343

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 1850384R-RFUSP25V00 from the DEKRA.