Revision: 2

Issue Date: December 16, 2020 Final Test Date: December 16, 2020







Test Report - RF Exposure Evaluation / SAR Exclusion Prepared For: TANDD CORPORATION

Signature:

Name & Title:

Bruno Clavier, General Manager

Approved for Release By:

Date of Signature 12/16/2020

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Table of Contents

1.	C	USTOMER INFORMATION	3
2.	LC	OCATION OF TESTING	3
	2.1	Test Laboratory	3
	2.2	Testing was performed, reviewed by	∠
3.	Τί	EST SAMPLE(S) (EUT/DUT)	5
	3.1	DESCRIPTION OF THE EUT	
4.	S/	AR EXCLUSION CALCULATION:	6
5.	Н	IISTORY OF TEST REPORT CHANGES	7



1. Customer Information

Applicant: TANDD Corporation USA

Address: 817-1-Shimadachi, Matsumoto,

Nagano, Japan 390-0852

Contact: Akemi Oana
Telephone: 81-263-40-0131
Email address: oana@tandd.co.jp

2. Location of Testing

2.1 Test Laboratory

Timco Engineering Inc. is a subsidiary of Industrial Inspection & Analysis, Inc. ("IIA"). Testing was performed at Timco's permanent laboratory located at 849 NW State Road 45, Newberry, Florida 32669

FCC test firm # 578780

FCC Designation # US1070

FCC site registration is under A2LA certificate # 0955.01

ISED Canada test site registration # 2056A

EU Notified Body # 1177

For all designations see A2LA scope # 0955.01

2.2 Testing was performed, reviewed by

Dales of Testilla. October 14 – December 1	esting: October 14 – December 16, 20	J20
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Signature:

Name & Title: Franklin Rose, EMC Specialist

Date of Signature

(YYYY-MM-DD): 2020-12-16

Imas D. Roy

Sr. EMC Engineer EMC-003838-NE

Signature:

Name & Title: Tim Royer, EMC Engineer

Date of Signature

(YYYY-MM-DD): 2020-12-16

3. Test Sample(s) (EUT/DUT)

The test sample was received: October 14, 2020

3.1 Description of the EUT

A description as well as unambiguous identification of the EUT(s) tested. Where more than one sample is required for technical reasons (such as the use of connected units for the purpose of conducted output power testing where the product units will have integral antennas), each specific test shall identify which unit was tested.

Identification					
FCC ID:	SRD10100				
Brief Description	Data Logger Base Unit				
Type of Modular	Host device to WiFi module FCC ID: Z64-CC3135MOD				
Model(s) #	RTR500BC, RTR500BW				
Firmware version	n/a				
Software version	n/a				
Serial Number	n/a				

Technical Characteristics					
Technology	900 MHz FSK				
	(The host also contains 2.4 GHz BLE; 2.4 GHz WiFi module)				
Frequency Range	902-928 MHz; 2400-2483.5 MHz				
RF O/P Power (Max.)	7.2 dBm (5.25 milliwatts)				
Modulation	FSK				
Bandwidth & Emission Class	552.55 kHz				
Number of Channels	21				
Duty Cycle	10%				
Antenna Gain (for each ant.)	2.15 dBi				
Antenna Connector	SMA				
Voltage Rating (AC or Batt.)	5 V DC				

Antenna Characteristics					
Antenna	Frequency Range	Mode / BW	Antenna Gain		
1	902-928 MHz	n/a	2.15 dBi		
2	2.4 – 2.4835 GHz	n/a	0 dBi		



4. SAR EXCLUSION CALCULATION:

900 MHz Radio

Frequency Band	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Exclusion Value
902-928 MHz	5	7.20	5.25	1.01

2.4 GHz Radio

Frequency Band	Separation Distance (mm)	Max Power + Tolerance (dBm)	Max Power + Tolerance (mW)	SAR Exclusion Value
2402-2480 MHz	5	-0.85	0.82	0.26

SAR, Composite

Frequency Band	Separation Distance (mm)	SAR Exclusion Value	Limit for 1-g SAR	Limit for 10-g SAR (Extremeties)	SAR Exclusion
902-2480 MHz	5	1.27	3.0	7.5	SAR EXEMPT

Note: Device is fixed; device is not handheld or body-worn.

5. History of Test Report Changes

Test Report #	Revision #	Description	Date of Issue
TR_3846-20_RF Exp SAR Exclusion Rpt	1	Initial release	November 13, 2020
TR_3846-20_RF Exp SAR Exclusion Rpt_2	2	Updated with 2.4 GHz Radio; clerical updates	December 16, 2020

END OF TEST REPORT