

RF Exposure Report

Report No.: SA180323D03

FCC ID: R4V-SDIZ90N

Test Model: SDIZ90N

Received Date: Mar. 23, 2018

Issued Date: Dec. 20, 2018

Applicant: Western Digital Technologies, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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**FCC Registration /
Designation Number:** 198487 / TW2021



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Release Control Record

Issue No.	Description	Date Issued
SA180323D03	Original release.	Dec. 20, 2018

1 Certificate of Conformity

Product: iXpand Wireless Charger

Brand: SANDISK

Test Model: SDIZ90N

Sample Status: Engineering sample

Applicant: Western Digital Technologies, Inc.

Test Date: Nov. 22 ~ Dec. 3, 2018

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Jessica Cheng , **Date:** Dec. 20, 2018
Jessica Cheng / Senior Specialist

Approved by : Rex Lai , **Date:** Dec. 20, 2018
Rex Lai / Associate Technical Manager

2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

So, this device is classified as **Mobile Device**.

2.4 Calculation Result Of Maximum Conducted Power

Function	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WLAN	28.26	5.13	20	0.4342	1
Bluetooth LE	4.49	2.46	20	0.0010	1

Directional gain = $2.12\text{dBi} + 10\log(2) = 5.13\text{dBi}$

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