



MRT Technology (Taiwan) Co., Ltd
Phone: +886-3-3288388
Fax: +886-3-3288918
Web: www.mrt-cert.com

Report No.: 2101TW0501-U2
Report Version: 1.0
Issue Date: 2021-03-15

Maximum Permissible Exposure

FCC ID: 2AXTDUX8125-M42F

APPLICANT: Ubiik Inc.

Application Type: Certification

Product: Weightless EDM

Model No.: UX8125-M42F

Brand Name: Ubiik

FCC Rule Part(s): Part 2.1091 (Mobile)

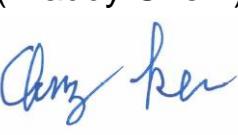
Received Date: December 11, 2020

Test Date: December 11, 2020 ~ January 3, 2021

Reviewed By : 

(Paddy Chen)



Approved By : 

(Chenz Ker)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date
2101TW0501-U2	1.0	Original Report	2021-3-15

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	Weightless EDM
Model No.	UX8125-M42F
Trademark	Ubiik
Frequency Range	902~928MHz
Type of Modulation	FHSS (GMSK)

1.2. Antenna Description

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Ubiik	M701-3C333075	Dipole	3.29dBi

2. Maximum Permissible Exposure(MPE)

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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)
(A) Limits for Occupational/ Control Exposures				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.4	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

Note : (1) f= Frequency in MHz , (2) * = Plane-wave equivalent power density

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

Under normal use condition, is at least 20cm away from the body of the user .

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

2.2. Test Result

Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
902~928	25.84	236.59	3.29	20	0.1628	0.6133

Therefore, the maximum calculations are less than the “1” limit. Complies with FCC radiation exposure requirement specified in the FCC Rule 2.1091.

————— The End —————