

APPLICANT : Zero One Technology Co., Ltd.

EQUIPMENT: GSM/GPRS cellular modem terminal

BRAND NAME : NAVIZOT

MODEL NAME : F3

MARKETING NAME : F3 Cellular modem terminal

FCC ID : 08G-01F3001

FILING TYPE : Certification

STANDARD : OET Bulletin 65 Supplement C (Edition 01-01)

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with FCC OET Bulletin 65 Supplement C (Edition 01-01), and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager

SPORTON INTERNATIONAL INC.

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SPORTON INTERNATIONAL INC.

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA232163	63 Rev. 01 Initial issue of report		Jul. 18, 2012

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1. RF Exposure Introduction

Requirements

Three different categories of transmitters are defined by the FCC in OET Bulletin 65. These categories

are fixed installation, mobile and portable and are defined as follows:

Fixed installation:

Fixed location means that the device, including its antenna, is physically secured at a permanent location

and is not able to be easily moved to another location. Additionally, distance to humans form the antenna

is maintained to at least 2 meters.

Mobile Devices:

A mobile device is defined as a transmitting device designed to be used in other than fixed locations and

to be generally used in such a way that a separation distance of at least 20 centimeters is normally

maintained between the transmitters's radiating structures and the body of the user or nearby persons.

Transmitters designed to be used by consumers or workers that can be easily re-located are considered

mobile devices if they meet the 20 centimeter separation requirement. The FCC rules for evaluating

mobile devices for RF compliance are found in 47 CFR 2.1091.

■ Portable Devices:

A portable device is defined as a transmitting device designed to be used so that the radiating structure(s)

of the device is/are within 20 centimeters of the body of the user. Portable device requirements are found

in Section 2.1093 of the FCC's Rules (47 CFR 2.1093)

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The FCC also categorizes the use of the device as based upon the user's awareness and ability to exercise control over his or her exposure. The two categories defined are Occupational/Controlled Exposure and General Population/Uncontrolled Exposure. These two categories are defined as follows:

Occupational/controlled Exposure:

In general, occupational/controlled exposure limits are applicable to situation in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure. Awareness of the potential for RF exposure in a workplace or similar environment can be provided through specific training as part of a RF safety program. If appropriate, warning signs and labels can also be used to establish such awareness by providing prominent information on the risk of potential exposure and instructions on methods to minimize such exposure risks.

General Population/Uncontrolled Exposure:

The general population / uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity. Warning labels placed on low-power consumer devices such as cellular telephones are not considered sufficient to allow the device to be considered under the occupational/controlled category and the general population/uncontrolled exposure limits apply to these devices.

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2. Administration Data

2.1 Testing Laboratory

Test Site	SPORTON INTERNATIONAL INC.
	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park,
Test Site Location	Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
Test Site Location	TEL: +886-3-327-3456
	FAX: +886-3-328-4978

2.2 Applicant

Company Name	Zero One Technology Co., Ltd.			
	10F., No. 8, Lane 360, Sec.1, Neihu Rd. Neihu Dist., Taipei City 114 Taiwan			
	R.O.C			

2.3 Manufacturer

Company Name	Zero One Technology Co., Ltd.			
Address	10F., No. 8, Lane 360, Sec.1, Neihu Rd. Neihu Dist., Taipei City 114 Taiwar			
	R.O.C			

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3. General Information

3.1 <u>Description of Device Under Test (DUT)</u>

	Product Feature & Specification			
DUT Type	GSM/GPRS cellular modem terminal			
Brand Name	NAVIZOT			
Model Name	F3			
Marketing Name	F3 Cellular modem terminal			
FCC ID	O8G-01F3001			
Ty Fraguency	GSM850: 824.2 MHz ~ 848.8 MHz			
Tx Frequency	GSM1900: 1850.2 MHz ~ 1909.8 MHz			
Py Fraguency	GSM850: 869.2 MHz ~ 893.8 MHz			
Rx Frequency	GSM1900: 1930.2 MHz ~ 1989.8 MHz			
Antenna Type	Fixed External Antenna			
Antenna Gain	GSM850: 1 dBi			
Antenna Gam	GSM1900: 0 dBi			
HW Version	V1.2			
SW Version	V3.0			
Type of Medulation	GSM: GMSK			
Type of Modulation	GPRS: GMSK			
DUT Stage	Production Unit			

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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4. RF Exposure Evaluation

4.1 Radio Frequency Radiation Exposure Evaluation

According to 1.1310 of the FCC rules, the power density limit for General Population/Uncontrolled Exposure is f/1500 mW/cm² for 300 MHz to 1500 MHz and 1.0 mW/cm² for 1500 MHz to 100000 MHz. As this is a mobile application the MPE shall be calculated at 20 cm to show compliance with the power density limit. The following formula was used to calculate the Power Density:

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$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

This device is evaluated by mobile device with general population/uncontrolled exposure condition.

For this device, the calculation is as follows:

Function	Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum Output Power (dBm)	Maximum Output Power (mW)	Average EIRP (mW)	Calculated RF Exposure (mW/cm²)	Limit (mW/cm²)
GSM Cellular Band	1	1.26	32.33	1710.02	269.10	0.05	0.55
GSM PCS Band	0	1.00	30.35	1083.93	135.49	0.03	1.00

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This device can pass RF exposure limit.

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