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Report No.: TMWK2512005726KS

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RF Exposure Evaluation Report

FCC 47 CFR § 2.1091

for
Gemini SE

Model Name.: N693, N693F, N693D, N693FT, N693DT

Prepared for:

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 8, 2026	Initial Issue	ALL	Peggy Tsai
01	April 20, 2026	See the following Note Rev.(01)	P.6, 7	Peggy Tsai

Rev. (01)

1. Modify PMN and Class II Permissive Change in section 3.

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1 Attestation of Test Results

Applicant Name	MiTAC Digital Technology Corporation
Model Name	N693, N693F, N693D, N693FT, N693DT
Applicable Standards	FCC 47 CFR § 2.1091 FCC 47 CFR § 1.1310 Published RF exposure KDB procedures
Receive EUT Date:	January 23, 2026
Date of Test:	March 3, 2026
Compliance Certification Services Inc. , tested the above equipment in accordance with the requirements set forth in the above standards. Determination of compliance is based on the results of the compliance measurement,not taking into account measurement instrumentation uncertainty.All indications of Pass/Fail in this report are opinions expressed by Compliance Certification Services Inc, based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.	
Approved & Released By:	Tested by:
	
Sky Zhou Asst. Section Manager Compliance Certification Services Inc.	KW Huang Engineer Compliance Certification Services Inc.



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2 Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1091, the following FCC Published RF exposure [KDB](#) procedures:

- 447498 D04 Interim General RF Exposure Guidance v01
- 865664 D02 RF Exposure Reporting v01r02

3 Device Under Test (DUT) Information

3.1 DUT Description

Product	Gemini SE
Trade Name	MiTAC, Mio, NAVMAN, MAGELLAN, Solera, ORBCOMM, Geotab
Model No.	N693, N693F, N693D, N693FT, N693DT
Model Discrepancy	Please see remark as below.
Hardware Version	R01
Software Version	R40
PMN	Gemini SE, GO Focus Plus
Sample Stage	Identical prototype

3.2 Wireless Technologies

Frequency bands	☐ Bluetooth: 2402MHz ~ 2480MHz ☐ 802.11b/g/n HT20: 2412 MHz ~ 2462 MHz ☐ 802.11n HT40: 2422 MHz ~ 2452MHz ☐ 802.11a/n HT20: 5180MHz ~ 5240MHz / 5745MHz ~ 5825MHz ☐ 802.11n HT40: 5190MHz ~ 5230MHz / 5755MHz ~ 5795MHz ☐ 802.11ac VHT80: 5210MHz / 5775MHz ☒ 13.56MHz ☐ WCDMA Band II: 1852.4MHz ~ 1907.6MHz ☐ WCDMA Band IV: 1712.4MHz ~ 1752.6MHz ☐ WCDMA Band V: 826.4MHz ~ 846.6MHz ☐ LTE Band 2: 1850.0MHz ~ 1910.0MHz ☐ LTE Band 4: 1710.0MHz ~ 1755.0MHz ☐ LTE Band 5: 824.0MHz ~ 849.0MHz ☐ LTE Band 12: 704.0MHz ~ 716.0MHz ☐ LTE Band 13: 777 MHz ~ 787 MHz ☐ LTE Band 14: 788 MHz ~ 798 MHz ☐ LTE Band 66: 1710 MHz ~ 1780 MHz ☐ LTE Band 71: 663 MHz ~ 698 MHz ☐ Others
Exposure classification	☐ Occupational/Controlled exposure ☒ General Population/Uncontrolled exposure
Antenna Specification	Type: Loop Antenna
Result Power	13.56MHz 51.76 dBuV/m (3m)
Class II Permissive Change	1. Added brand name: Solera, ORBCOMM, Geotab. 2. Added PMN: GO Focus Plus. 3. The NFC chip IC is changed from NXP NQ310 to NQ410, with the same brand, model series, and specifications as the original. 4. Updated SW Version to R40.

Notes:

- For more details, please refer to the User's manual of the EUT.
- Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
- Disclaimer: The variant model numbers / trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.
- Model Discrepancy:

Model name		Difference Description	Brand name	Market name
Main	N693	-	MiTAC, Mio, MAGELLAN, Navman, Solera, ORBCOMM, Geotab	Gemini SE, GO Focus Plus
Series	N693F	The only difference between the base model N693 and the additional model(s) N693F is as follows: The only difference is exchanged position between right camera and left camera.	MiTAC, Mio, MAGELLAN, Navman, Solera, ORBCOMM, Geotab	MiTAC, Mio, NAVMAN, MAGELLAN
	N693FT	The only difference between the base model N693F and the additional model(s) N693FT is as follows: Disable LTE B71 by software.	ORBCOMM, Geotab	MiTAC, Mio, NAVMAN, MAGELLAN
	N693D	The only difference between the base model N693 and the additional model(s) N693D is as follows: N693: Dual Camera N693D: Single Camera	MiTAC, Mio, MAGELLAN, Navman, Solera, ORBCOMM, Geotab	MioEYE™ K series K145c
	N693DT	The only difference between the base model N693D and the additional model(s) N693DT is as follows: Disable LTE B71 by software.	ORBCOMM, Geotab	MioEYE™ K series K145c

- The NFC power referred the test report TMWK2512005725KR for RF Exposure assessment purpose.

4 Measurement Uncertainty

NFC

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	$\pm 2.37\text{dB}$
Channel Bandwidth	$\pm 2.85\text{dB}$
Frequency Stability	$\pm 2.74\text{dB}$
Radiated Emission_9kHz-30MHz	$\pm 2.750\text{ dB}$
Radiated Emission_30MHz-200MHz	$\pm 3.874\text{ dB}$
Radiated Emission_200MHz-1GHz	$\pm 4.065\text{ dB}$

5 Maximum Permissible Exposure

5.1 Limits for Maximum Permissible Exposure (MPE)

Table 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)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	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
300-1,500			f/1500	30
<u>1,500-100,000</u>			1.0	30

5.2 MPE Calculation Method

Calculation

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{377}$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377 d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \text{ Equation 1}$$

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

S = Power density in mW / cm²

If, Substituting the MPE safe distance using d = 20 cm into Equation 1:

$$S = 0.000199 \times P \times G$$

5.3 MPE EXEMPTION

- (A) The available maximum time-averaged power is no more than 1 mW
- (B) The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

- (C) Using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.
Note: R is in meters, f is in MHz.	

5.4 Multiple RF sources

In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation),

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

6 Radio Frequency Radiation Max Exposure Evaluation

NFC

Mode	Frequency (MHz)	Electric field (dBuV/m)@3m	Max EIRP power (dBm)	Max EIRP Tune-up power (dBm)	Max EIRP Tune-up power (mW)	D(cm)	Power Density in mW/cm ²	Limit (mW/cm ²)
NFC	13.56	51.76	-43.47	-43.00	0	20	0.00	0.98

7 Facilities

All measurement facilities used to collect the measurement data are located at

☒ No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

END OF REPORT