

Test Report No:
2610461R-RFUSV17S-A

RF EXPOSURE EVALUATION DECLARATION

Product Name	Telematics Module
Brand Name	Quanta Computer Inc.
Model No.	QV28NUS
FCC ID	HFS-QV28NUS
Applicant's Name / Address	Quanta Computer Inc. No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City, 33377, Taiwan
Manufacturer's Name	Quanta Computer Inc.
Test Method Requested, Standard	KDB 447498 D01 v06
Verdict Summary	IN COMPLIANCE
Documented By Genie Chang	<i>Genie Chang</i>
Tested by Will Chen	<i>Will Chen</i>
Approved by Tim Sung	<i>Tim Sung</i>
Date of Receipt	2025/11/25
Date of Issue	2026/03/13
Report Version	V1.0

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Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General Conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	2026/03/13

1. General Information

1.1. EUT Description

Product Name	Telematics Module 錯誤! 找不到參照來源。
Brand Name	Quanta Computer Inc.
Model No.	QV28NUS

Note: For more detailed information please refer to report No.: 2610461R-RFUSV22S-A, 2610461R-RFUSV23S-A, 2610461R-RFUSV24S-A and 2610461R-RFUSV26S-A.

1.2. Testing Location Information

USA	FCC Registration Number: TW0033 / FCC Registration Number: 647365
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C.
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

2. RF Exposure Evaluation

2.1. Standard Applicable

47CFR §2.1091(b) states, "A mobile device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and the body of the user or nearby persons."

Also, 47CFR §1.1310(e)(3) states, that General population/uncontrolled exposure limits defined in §1.1310 "General population/uncontrolled exposure limits apply in 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 fully aware of the potential for exposure or cannot exercise control over their exposure."

2.2. Test Limit

(A) Test Limit for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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) Test Limit for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
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
300-1500	-	-	f/1500	<30
1500-100,000	-	-	1.0	<30

Note: f = frequency in MHz; *Plane-wave equivalent power density

Power Density (S) is calculated by the following formula:

$$S = (P \cdot G) / 4\pi R^2$$

where:

S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

π = 3.1416

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

2.3. Test Result of RF Exposure Evaluation

MIMO 1

Band	Frequency (MHz)	Tune-up power (dBm)	Tune-up power (mW)	Power Density (mW/cm ²)	Antenna Gain (dBi)	FCC MPE limit (mW/cm ²)	FCC EIRP /ERP limit (W)	Evaluation distance for compliance with MPE limits (cm)	Antenna gain to meet FCC MPE limit (dBi)	Antenna gain to meet FCC EIRP/ERP limit (dBi)	Maximum antenna gain to meet all the limits (dBi)	Maximum antenna gain to meet all the limits per frequency band (dBi)
WCDMA Band 2	1850.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
WCDMA Band 5	824.00	25.00	316.23	0.500	9.000	0.549	7.00	20	9.00	13.000	9.000	9.000
LTE B2	1850.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
LTE B4	1710.00	25.00	316.23	0.199	5.000	1.000	1.00	20	12.00	5.000	5.000	5.000
LTE B5	824.00	25.00	316.23	0.500	9.000	0.549	7.00	20	9.00	13.000	9.000	9.000
LTE B7, 7C	2500.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
LTE B12	699.00	25.00	316.23	0.445	8.500	0.466	3.00	20	8.50	9.500	8.500	8.500
LTE B13	777.00	25.00	316.23	0.500	9.000	0.518	3.00	20	9.00	9.500	9.000	9.000
LTE B17	704.00	25.00	316.23	0.445	8.500	0.469	3.00	20	8.50	9.500	8.500	8.500
LTE B25	1850.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
LTE B26	814.00	25.00	316.23	0.500	9.000	0.543	7.00	20	9.00	13.000	9.000	9.000
LTE B38	2570.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
LTE B42	3450.00	23.00	199.53	0.199	7.000	1.000	1.00	20	14.00	7.000	7.000	7.000
LTE B48	3550.00	23.00	199.53	0.040	0.000	1.000	0.20	20	14.00	0.000	0.000	0.000
LTE B66	1710.00	25.00	316.23	0.199	5.000	1.000	1.00	20	12.00	5.000	5.000	5.000
LTE B71	663.00	25.00	316.23	0.561	9.500	0.442	3.00	20	8.00	9.500	8.000	8.000
5G NR n2	1850.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
5G NR n5	824.00	25.00	316.23	0.500	9.000	0.549	7.00	20	9.00	13.000	9.000	9.000
5G NR n7	2500.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
5G NR n12	699.00	25.00	316.23	0.445	8.500	0.466	3.00	20	8.50	9.500	8.500	8.500
5G NR n25	1850.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
5G NR n41	2496.00	25.00	316.23	0.397	8.000	1.000	2.00	20	12.00	8.000	8.000	8.000
5G NR n48	3550.00	23.00	199.53	0.040	0.000	1.000	0.20	20	14.00	0.000	0.000	0.000
5G NR n66	1710.00	25.00	316.23	0.199	5.000	1.000	1.00	20	12.00	5.000	5.000	5.000
5G NR n71	663.00	25.00	316.23	0.561	9.500	0.442	3.00	20	8.00	9.500	8.000	8.000
5G NR n77	3450.00	26.50	446.68	0.199	3.500	1.000	1.00	20	10.50	3.500	3.500	3.500
5G NR n78	3700.00	23.00	199.53	0.199	7.000	1.000	1.00	20	14.00	7.000	7.000	7.000

MIMO 2

Band	Frequency (MHz)	Tune-up power (dBm)	Tune-up power (mW)	Power Density (mW/cm ²)	Antenna Gain (dBi)	FCC MPE limit (mW/cm ²)	FCC EIRP/ERP limit (W)	Evaluation distance for compliance with MPE limits (cm)	Antenna gain to meet FCC MPE limit (dBi)	Antenna gain to meet FCC EIRP/ERP limit (dBi)	Maximum antenna gain to meet all the limits (dBi)	Maximum antenna gain to meet all the limits per frequency band (dBi)
LTE B42	3450.00	24.00	251.19	0.199	6.000	1.000	1.00	20	13.00	6.000	6.000	6.000
LTE B48	3550.00	24.00	251.19	0.040	-1.000	1.000	0.20	20	13.00	-1.000	-1.000	-1.000
5G NR n48	3550.00	24.00	251.19	0.040	-1.000	1.000	0.20	20	13.00	-1.000	-1.000	-1.000
5G NR n77	3450.00	27.50	562.34	0.199	2.500	1.000	1.00	20	9.50	2.500	2.500	2.500
5G NR n78	3700.00	24.00	251.19	0.199	6.000	1.000	1.00	20	13.00	6.000	6.000	6.000