

RF EXPOSURE REPORT



Applicant: Arduino S.r.l.
Via Andrea Appiani, 25, 20900 Monza, Italy

Manufacturer: WNC Corporation
20 Park Avenue II Hsinchu Science Park, Hsinchu 300,
Taiwan

Product Name: Arduino UNO Q

Brand Name: Arduino

Model No.: ABX00162

Family Model No.: ABX00173

Model Difference: Please refer to section 1.4 for more details

FCC ID 2AN9S-ABX00162

IC: 26792-ABX00162

Date of EUT Received: Sep. 16, 2025

Issue Date: Nov. 25, 2025

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §1.1307 & KDB 447498 D04 v01 and RSS-102 issue 6.

The results of this report relate to the specific sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2511000902ES	00	Add family model number and one antenna	Nov. 25, 2025	Kimmy Chiou	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	Arduino UNO Q
Brand Name:	Arduino
Model No.:	ABX00162
Family Model No.:	ABX00173
Model Difference:	Please refer to section 1.4 for more details

1.2 Evaluation site

Laboratory		Site Address	FCC Designation number/ Registration Number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☒	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027/ 891563	4620A	TW3702
	☐	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028/ 200037	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Nei Hu District, Taipei City, 222 Taiwan.	TW0029/ 150169	23862	

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1.3 Antenna Information:

Antenna Type	Supplier	Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	WNC	DMVQ-AD01_SGB	2400-2500	1.41
			5150-5250	0.97
			5250-5350	1.40
			5470-5725	2.05
			5725-5850	2.09
PCB	WNC	DMVQ-AD01_SGD	2400-2500	4.80
			5150-5250	1.15
			5250-5350	1.67
			5470-5725	1.70
			5725-5850	3.12

Note: Antenna information is provided by the applicant.

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1.4 Model Difference:

The differences between models can be found in the table below:

Models *	M/N number	eMMC	Antenna Part No.
ABX00162	PCB ver.SGB	Max. 16GB	DMVQ-AD01_SGB
ABX00162	PCB ver.SGD or PCB ver.0GA **	Max. 16GB	DMVQ-AD01_SGD
ABX00173	--	Max. 32GB	DMVQ-AD01_SGD

Note:

* Model ABX00162 (PCB ver.SGB) and Model ABX00162 (PCB ver.SGD or PCB ver.0GA) are identical except for the antenna and have added a resistor (R2517: 0R1J).

Model ABX00162 (PCB ver.SGB) and Model ABX00173 are identical except for the antenna and eMMC capacity and have added a resistor (R2517: 0R1J).

Model ABX00162 (PCB ver.SGD or PCB ver.0GA) and Model ABX00173 are identical except for the eMMC capacity.

** Model ABX00162 (PCB ver.SGD) and Model ABX00162 (PCB ver.0GA) are identical except for the M/N number.

Refer to photos.

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2 DETERMINATION OF MPE EXEMPTION

2.1 FCC

2.1.1 Single RF Source

As per §1.1307(b)(3)(i),

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or 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);

Note: when 10-g extremity SAR applies, SAR test exemption may be considered by applying a factor of 2.5 to the SAR-based exemption thresholds.

- (C) Or 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).

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Table 1 to § 1.1307(b)(3)(i)(C) –

Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)			Minimum Distance			Threshold ERP (W)
fL		fH	$\lambda L / 2\pi$		$\lambda H / 2\pi$	
0.3	-	1.34	159m	-	35.6m	1920 R ²
1.34	-	30	35.6m	-	1.6m	3450 R ² /f ²
30	-	300	1.6m	-	159mm	3.83 R ²
300	-	1500	159mm	-	31.8mm	0.0128 R ² f
1500	-	100000	31.8mm	-	0.5mm	19.2R ²

R= minimum separation distance in meter

f = frequency in MHz

2.1.2 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.

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

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2.1.3 Single RF Source Evaluation Results

Chain 0	Frequency (MHz)	Max. tune-up power (dBm)	Peak gain (dBi)	ERP (dBm)	ERP (W)	Permissible Minimum separation distance ($\lambda/2\pi$) (m)	R = actual Minimum separation distance(m)	ERP _{th} (W)	ERP/ERP _{th}	Simultaneous transmission modes					
										1	2	3	4	5	6
WiFi 2.4GHz	2422	18.5	4.8	21.15	0.130	0.0197	0.200	0.768	0.170	V					
WiFi 5.2GHz	5180	15	1.15	14	0.025	0.0092	0.200	0.768	0.033						
WiFi 5.3GHz	5280	14	1.67	13.52	0.022	0.0090	0.200	0.768	0.029						
WiFi 5.6GHz	5500	15	2.05	14.9	0.031	0.0087	0.200	0.768	0.040						
WiFi 5.8GHz	5825	16	3.12	16.97	0.050	0.0082	0.200	0.768	0.065		V				
Bluetooth/BLE	2402	9.5	4.8	12.15	0.016	0.0199	0.200	0.768	0.021	V	V				

Conclusion: Source-base time average power is below Exemption Criteria and/or Routine Evaluation MPE thresholds, therefore the device is compliant FCC RF exposure requirement.

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the minimum separation distance of that band. All the single RF source results (P or ERP) are less than their corresponding threshold (P_{th} or ERP_{th}), so they are exempt from RF exposure testing.

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2.2 Multiple RF Sources Evaluation Results

Simultaneous transmission modes	Σ ERP/ERP _{th}	Criteria
1	0.191	1
2	0.086	1

Note:

1. $\Sigma(ERP/ERP_{th})$: This is a summation of [(ERP of RF source / exemption threshold ERP for RF source)].
Considering the collocated transmitters, the aggregated (ERP/ERP_{th}) is smaller than 1, and MPE of collocated transmitters is compliant

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3 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

3.1 Standard Applicable

According to RSS-102 issue 6 § 6.6 RF Exposure Evaluation

Field reference level (FRL) exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm (i.e. mobile devices), except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 1 W (adjusted for tune-up tolerance)

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $4.49/f^{0.5}W$ (adjusted for tune-up tolerance), where f is in MHz

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance)

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than $1.31 \times 10^{-2} \times f^{0.6834}W$ (adjusted for tune-up tolerance), where f is in MHz

at or above 6 GHz and the source-based, time-averaged maximum EIRP of the device is equal to or less than 5 W (adjusted for tune-up tolerance)

In these cases, the information contained in the RF exposure technical brief may be limited to information that demonstrates how the EIRP was derived.

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3.2 Maximum Permissible Exposure (MPE) Exemption

Operation Mode	Evaluation Frequency (MHz)	Max. output Power include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (W)	Limit (W)	Max. EIRP / Limit	Pass / Fail	Simultaneous transmission modes						
								1	2	3	4	5	6	7
WiFi 2.4GHz	2422.00	18.5	4.80	0.21	2.692	0.079	Pass	V						
WiFi 5.2GHz	5180.00	15	1.15	0.04	4.525	0.009	Pass							
WiFi 5.3GHz	5280.00	14	1.67	0.04	4.585	0.008	Pass							
WiFi 5.6GHz	5500.00	15	2.05	0.05	4.714	0.011	Pass							
WiFi 5.8GHz	5825.00	16	3.12	0.08	4.903	0.017	Pass		V					
Bluetooth	2402.00	9.5	4.80	0.03	2.676	0.010	Pass	V	V					

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

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3.2.1 Exemption evaluation for simultaneous transmission

Simultaneous transmission modes	Σ Max. EIRP/Limt	Criteria
1	0.089	1
2	0.027	1

Note:

1. Σ (EIRP / Limit): This is a summation of [(EIRP for each transmitter/antenna included in the simultaneous transmission) / (corresponding exemption limit)].
2. Considering the collocated transmitters, the summation of (EIRP /limit) is smaller than 1, so the MPE of simultaneous transmission is compliant.

~ End of Report ~

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