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SAR EXEMPTION REPORT

Manufacturer: Datacolor, Inc.
5 Princess Road
Lawrenceville, New Jersey 08648-2301 USA

Applicant: Same as Above

Product Name: Bluetooth Module

Product Description: Bluetooth Module

Model: ESP32-C3-MINI-1-N4

FCC ID: 2BGE7-P300

Standard(s):

- KDB447498 D04 Interim General RF Exposure Guidance v01
- FCC Rule Part 1.1307(b)(3)(i)(a)

Report Constructed by:

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1 ADMINISTRATIVE INFORMATION

1.1 Measurement Location:

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

1.2 Document History

Document Number	Description	Issue Date	Approved By
F2P33318-C1-04E	First Issue	2025-01-30	K. Littell



2 SUMMARY OF RESULTS

	Standard(s)	Results
SAR Exemption	- KDB447498 D04 Interim General RF Exposure Guidance v01 - FCC Rule Part 1.1307(b)(3)(i)(a)	Complies

Modifications Made to the Equipment
None



3 ENGINEERING STATEMENT

This report has been prepared on behalf of Datacolor, Inc., to provide documentation for the SAR Exemption herein. This equipment has been tested and found to comply with the SAR Exemption levels listed in FCC Rule Part 1.1307(b)(3)(i)(a).

(3) Determination of exemption.

(i) For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(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);

The maximum EIRP of the BLE was at the 2Mbps Low Channel. The power was measured at -5.58 dBm (0.277mW) and the antenna gain is 3.96dBi, so the max EIRP is -1.69dBm (0.69mW). **Ratio is $0.69\text{mW}/4.0\text{mW} = 0.173$**

The maximum EIRP of the Wi-Fi was at the 2412 MHz Low Channel. The power was measured at -4.86 dBm (0.327mW) and the antenna gain is 3.96dBi, so the max EIRP is -0.9dBm (0.81mW). **Ratio is $0.81\text{mW}/4.0\text{mW} = 0.203$**

Combined Ratio is $0.203 + 0.173 = 0.376$

**4 EUT INFORMATION AND DATA****4.1 Equipment Under Test:**

Product: Bluetooth Module

Model(s): ESP32-C3-MINI-1-N4

Serial No.: 8838316

FCC ID: 2BGE7-P300**4.2 Trade Name:****Datacolor****4.3 Power Supply:**

3.0 V ~ 3.6 V

4.4 Applicable Rules:

KDB447498

4.5 Antenna:

On-board PCB antenna

4.6 Accessories:

Device	Manufacturer	Model Number	Serial Number
Spectrophotometer	Datacolor, Inc.	P300*	8838316
Laptop	Dell	P626	None Specified
Power Supply	Dell	LA65NM130	None Specified

**Denotes actual model tested as worst-case representative of product family that includes models P100, P200 and P300.*