

## RF EXPOSURE REPORT



**Applicant:** HP Inc.  
1501 Page Mill Road Palo Alto CA 94304, US  
**Manufacturer:** HP Inc.  
1501 Page Mill Road Palo Alto CA 94304, US  
**Product Name:** HyperX Embedded Wireless Module  
**Brand Name:** HP  
**Model No.:** HSN-M01BTM  
**Model Difference:** N/A  
**FCC ID** B94-HNM01BTM  
**IC:** 466X-HNM01BTM  
**Date of EUT Received:** Jul. 17, 2024  
**Issue Date:** Aug. 07, 2024

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 |
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## Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Product Description

|                   |                                 |
|-------------------|---------------------------------|
| Product Name:     | HyperX Embedded Wireless Module |
| Brand Name:       | HP                              |
| Model No.:        | HSN-M01BTM                      |
| Model Difference: | N/A                             |

### 1.2 Evaluation site

| Laboratory  | Site Address                        |   | FCC Designation number | ISED Company Number | CAB Identifier |
|---|-------------------------------------|---|------------------------|---------------------|----------------|
| SGS Taiwan Ltd.<br>Central RF Lab.<br>(TAF code 3702) | <input checked="" type="checkbox"/> | No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan. | TW0027                 | 4620A               | TW3702         |
|   | <input type="checkbox"/>            | No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.                                | TW0028                 | 4620E               |                |
|   | <input type="checkbox"/>            | 1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.      | TW0029                 | 23862               |                |

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**1.3 Antenna Information:**

| Antenna Type | Supplier | Antenna | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) |
|--------------|----------|---------|------------------|-------------|-------------------------|
| PIFA         | INPAQ    | Tx1     | WA-P-LE-02-311   | 2.4GHz      | 3.41                    |

**Note:** Antenna information is provided by the applicant.

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## 2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 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  $\lambda$  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 <sup>2</sup>                 |
| 1.34                      | - | 30     | 35.6m              | - | 1.6m               | 3450 R <sup>2</sup> /f <sup>2</sup> |
| 30                        | - | 300    | 1.6m               | - | 159mm              | 3.83 R <sup>2</sup>                 |
| 300                       | - | 1500   | 159mm              | - | 31.8mm             | 0.0128 R <sup>2</sup> f             |
| 1500                      | - | 100000 | 31.8mm             | - | 0.5mm              | 19.2R <sup>2</sup>                  |

R= minimum separation distance in meter

f = frequency in MHz

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## 2.2 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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### 2.3 Single RF Source Evaluation Results

| Mode | 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 <sub>th</sub> (W) | ERP/ERP <sub>th</sub> |
|------|-----------------|--------------------------|-----------------|-----------|---------|--|---|-----------------------|-----------------------|
| BLE  | 2480            | 6                        | 3.41            | 7.26      | 0.005   | 0.0193   | 0.200                                     | 0.768                 | 0.007                 |

**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<sub>th</sub> or ERP<sub>th</sub>), so they are exempt from RF exposure testing.

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### 3 ISED MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### 3.1 Field reference level exposure exemption limits

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  $1.31 \times 10^{-2} f^{0.6834} W$

(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 Field reference level exposure exemption evaluation**

| Operation Mode | Evaluation Frequency (MHz) | Max. output Power include Tolerance (dBm) | Antenna Gain (dBi) | Max. EIRP (W) | Limit (W) | Max. EIRP / Limit | Pass / Fail |
|----------------|----------------------------|---|--------------------|---------------|-----------|-------------------|-------------|
| BLE            | 2480.00                    | 6   | 3.41               | 0.01          | 2.736     | 0.004             | Pass        |

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

*~ End of Report ~*

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