

## RF EXPOSURE REPORT

OF

**Applicant:** Askey Computer Corporation  
10F, No 119, JianKang Rd., Zhonghe Dist., New Taipei City,  
Taiwan 23585

**Product Name:** Cat 12 Indoor CPE

**Brand Name:** Verizon

**Model No.:** ASK-RTL108

**Model Difference:** N/A

**Report Number:** E2/2019/B0015

**FCC ID:** H8N-ASK-RTL108

**FCC Rule Part** Part 2.1091

**Issue Date:** Mar. 05, 2020

**We hereby certify that:**

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with the above rule(s).

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

**Approved By:**

John Yeh

**John Yeh / Asst. Manager**Testing Laboratory  
0513

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## Revision History

| Report Number | Revision | Description | Issue Date    | Remark                |
|---------------|----------|-------------|---------------|-----------------------|
| E2/2019/B0015 | Rev.00   | Original.   | Mar. 05, 2020 | Revised By: Yuri Tsai |

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 General:

|                   |                          |                                                                                                                       |
|-------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Product Name:     | Cat 12 Indoor CPE        |                                                                                                                       |
| Brand Name:       | Verizon                  |                                                                                                                       |
| Model No.:        | ASK-RTL108               |                                                                                                                       |
| Model Difference: | N/A                      |                                                                                                                       |
| Hardware Version: | REV 3.0                  |                                                                                                                       |
| Software Version: | N/A                      |                                                                                                                       |
| Power Supply:     | 12Vdc from AC/DC Adapter |                                                                                                                       |
|                   | Adapter:                 | 1. Model No.:PS24L120K2000UD,<br>Supplier: FLYPOWER<br>2. Model No.:WB-24J12FU,<br>Supplier: Asian Power Devices Inc. |

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**1.2 Antenna Information:****1.2.1 WLAN 2.4GHz**

| Antenna Type | Supplier | ANT1 / ANT2 | Antenna Part No. | Freq. (MHz) | Peak Antenna Gain (dBi) | MIMO Antenna Gain (dBi) |
|--------------|----------|-------------|------------------|-------------|-------------------------|-------------------------|
| PIFA         | N/A      | ANT1        | ASK-RTL108       | 2.4GHz      | 1.87                    | 5.14                    |
|              |          | ANT2        |                  |             | 2.37                    |                         |

**1.2.2 WLAN 5GHz**

| Antenna Type | Supplier | ANT1 / ANT2 | Antenna Part No. | Frequency (MHz) | Peak Antenna Gain (dBi) | MIMO Antenna Gain (dBi) |
|--------------|----------|-------------|------------------|-----------------|-------------------------|-------------------------|
| PIFA         | N/A      | ANT1        | ASK-RTL108       | 5150~5250       | 3.26                    | 6.41                    |
|              |          |             |                  | 5725~5850       | 3.04                    | 5.84                    |
|              |          | ANT2        |                  | 5150~5250       | 3.54                    | 6.41                    |
|              |          |             |                  | 5725~5850       | 2.61                    | 5.84                    |

**1.2.3 WWAN****Internal**

| Vendor | Type | Model Name | Modulation  | Frequency (MHz) |   |      | Peak Antenna Gain (dBi) |
|--------|------|------------|-------------|-----------------|---|------|-------------------------|
| N/A    | PIFA | ASK-RTL108 | LTE Band 2  | 1850            | ~ | 1910 | 3.61                    |
|        |      |            | LTE Band 4  | 1710            | ~ | 1755 | 3.27                    |
|        |      |            | LTE Band 5  | 824             | ~ | 849  | 1.42                    |
|        |      |            | LTE Band 13 | 777             | ~ | 787  | 0.01                    |
|        |      |            | LTE Band 48 | 3550            | ~ | 3700 | 3.59                    |
|        |      |            | LTE Band 66 | 1710            | ~ | 1780 | 3.27                    |

**External**

| Vendor                           | Type     | Model Name   | Modulation  | Frequency (MHz) |   |      | Peak Antenna Gain (dBi) |
|----------------------------------|----------|--------------|-------------|-----------------|---|------|-------------------------|
| Master Wave Technology Co., Ltd. | Monopole | 98619ZSAX031 | LTE Band 2  | 1850            | ~ | 1910 | 2.82                    |
|                                  |          |              | LTE Band 4  | 1710            | ~ | 1755 | 2.93                    |
|                                  |          |              | LTE Band 5  | 824             | ~ | 849  | 2.41                    |
|                                  |          |              | LTE Band 13 | 777             | ~ | 787  | N/A                     |
|                                  |          |              | LTE Band 66 | 1710            | ~ | 1780 | 2.93                    |

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### 1.3 Rated Power

#### 1.3.1 WLAN 2.4GHz

| Mode             | Freq. Range (MHz) | Channels                                                        | Modulation Technology | Max Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Worst Case |
|------------------|-------------------|-----------------------------------------------------------------|-----------------------|------------------------|--------------------|------------|------------|
| 802.11b/g/n_HT20 | 2412-2462         | 11                                                              | DSSS & OFDM           | 29.30                  | 5.14               | 34.44      | V          |
| 802.11 n_HT40    |                   |                                                                 |                       | 26.90                  |                    | 32.04      |            |
| Modulation type: |                   | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM |                       |                        |                    |            |            |

#### 1.3.2 WLAN 5GHz

| Wi-Fi           | Freq. Range (MHz) | Modulation Technology                                                 | Max. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Worst Case |
|-----------------|-------------------|-----------------------------------------------------------------------|-------------------------|--------------------|------------|------------|
| 11a             | 5150~5250         | OFDM                                                                  | 22.09                   | 6.41               | 28.5       | V          |
|                 | 5725~5850         |                                                                       | 20.91                   | 5.84               | 26.75      |            |
| 11n HT20        | 5150~5250         |                                                                       | 21.83                   | 6.41               | 28.24      |            |
|                 | 5725~5850         |                                                                       | 20.97                   | 5.84               | 26.81      |            |
| 11n HT40        | 5150~5250         |                                                                       | 22.01                   | 6.41               | 28.42      |            |
|                 | 5725~5850         |                                                                       | 21.35                   | 5.84               | 27.19      |            |
| 11ac VHT80      | 5150~5250         |                                                                       | 16.96                   | 6.41               | 23.37      |            |
|                 | 5725~5850         |                                                                       | 20.11                   | 5.84               | 25.95      |            |
| Modulation type |                   | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 802.11ac only |                         |                    |            |            |

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### 1.3.3

#### LTE:

| Operating Frequency (MHz) |        |          | Max. Output Power (dBm) | Antenna Gain (dBi) | EIRP / ERP (dBi / dBd) |
|---------------------------|--------|----------|-------------------------|--------------------|------------------------|
| LTE-Band 2                | 1850.7 | ~ 1909.9 | 24.69                   | 3.61               | 28.30                  |
| LTE-Band 4                | 1710.7 | ~ 1754.3 | 24.67                   | 3.27               | 27.94                  |
| LTE-Band 5                | 824.7  | ~ 848.3  | 24.58                   | 2.41               | 27.26                  |
| LTE-Band 13               | 779.5  | ~ 784.5  | 24.47                   | 0.01               | 24.48                  |
| LTE-Band 48               | 3550   | ~ 3700   | 19.36                   | 3.59               | 22.95                  |
| LTE-Band 66               | 1710.7 | ~ 1779.3 | 24.62                   | 3.27               | 27.89                  |

#### ULCA:

| Operating Frequency (MHz) |               |     | Max. Output Power (dBm) | Antenna Gain (dBi) | EIRP / ERP (dBi / dBd) |
|---------------------------|---------------|-----|-------------------------|--------------------|------------------------|
| LTE-Band 2A+5A            | 1850.7~1909.9 | PCC | 20.74                   | 3.61               | 24.35                  |
|                           | 824.7~848.3   | SCC | 19.06                   | 1.42               | 20.48                  |
| LTE-Band 2A+13A           | 1850.7~1909.9 | PCC | 20.79                   | 3.61               | 24.4                   |
|                           | 779.5~784.5   | SCC | 21.21                   | 0.01               | 21.22                  |
| LTE-Band 4A+5A            | 1710.7~1754.3 | PCC | 22.06                   | 3.27               | 25.33                  |
|                           | 824.7~848.3   | SCC | 21.52                   | 1.42               | 22.94                  |
| LTE-Band 4A+13A           | 1710.7~1754.3 | PCC | 23.06                   | 3.27               | 26.33                  |
|                           | 779.5~784.5   | SCC | 22.49                   | 0.01               | 22.5                   |
| LTE-Band 5A+66A           | 824.7~848.3   | PCC | 24.05                   | 1.42               | 25.47                  |
|                           | 1710.7~1779.3 | SCC | 20.42                   | 3.27               | 23.69                  |
| LTE-Band 5B+5B            | 824.7~848.3   | PCC | 22.21                   | 1.42               | 23.63                  |
|                           |               | SCC | 15.82                   | 1.42               | 17.24                  |
| LTE-Band 13A+66A          | 779.5~784.5   | PCC | 24.24                   | 0.01               | 24.25                  |
|                           | 1710.7~1779.3 | SCC | 20.69                   | 3.27               | 23.96                  |

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## 2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

| Frequency Range (MHz)                               | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|-----------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------|
| 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 <sup>2</sup> )              | 30                      |
| 30-300                                              | 27.5                          | 0.073                         | 0.2                                 | 30                      |
| 300-1500                                            | /                             | /                             | f/1500                              | 30                      |
| 1500-15000                                          | /                             | /                             | 1.0                                 | 30                      |

f = frequency in MHz

\* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

Where: S = Power density

P = Power input to antenna

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

R = Distance to the center of radiation of the antenna

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## 2.2 Power Density Calculation (Worst Case)

### FCC Standalone MPE

| Operation Mode | Evaluation Frequency (MHz) | Operation Distance (cm) | Max. output Power (dBm) | Antenna Gain (dBi) | Max. output Power EIRP (mW) | Power Density (PD) (mW/cm <sup>2</sup> ) | Limit (mW/cm <sup>2</sup> ) | Pass / Fail | Power Density / Limit | Collocated MPE |
|----------------|----------------------------|-------------------------|-------------------------|--------------------|-----------------------------|------------------------------------------|-----------------------------|-------------|-----------------------|----------------|
| WLAN 2.4GHz    | 2437.00                    | 20                      | 29.3                    | 5.41               | 2958.01                     | 0.589                                    | 1.000                       | Pass        | 0.589                 | V              |
| WLAN 5GHz      | 5150.00                    | 20                      | 22.09                   | 6.41               | 707.95                      | 0.141                                    | 1.000                       | Pass        | 0.141                 |                |
| LTE-Band 2     | 1850.70                    | 20                      | 25                      | 3.61               | 726.11                      | 0.145                                    | 1.000                       | Pass        | 0.145                 |                |
| LTE-Band 4     | 1710.70                    | 20                      | 25                      | 3.27               | 671.43                      | 0.134                                    | 1.000                       | Pass        | 0.134                 |                |
| LTE-Band 5     | 824.70                     | 20                      | 25                      | 1.42               | 438.53                      | 0.087                                    | 0.550                       | Pass        | 0.159                 | V              |
| LTE-Band 13    | 779.50                     | 20                      | 25                      | 0.01               | 316.96                      | 0.063                                    | 0.520                       | Pass        | 0.121                 |                |
| LTE-Band 48    | 3552.50                    | 20                      | 25                      | 3.59               | 722.77                      | 0.144                                    | 1.000                       | Pass        | 0.144                 |                |
| LTE-Band 66    | 1710.70                    | 20                      | 25                      | 3.27               | 671.43                      | 0.134                                    | 1.000                       | Pass        | 0.134                 |                |

### Collocated Power Density Calculation

| Max WLAN PD / Limit | Max WWAN PD / Limit ULCA LTE Band 5 | Max WWAN PD / Limit ULCA LTE Band 5 | Σ (Power Density / Limit) of WLAN + WWAN ULCA |
|---------------------|-------------------------------------|-------------------------------------|-----------------------------------------------|
| 0.589               | 0.159                               | 0.159                               | 0.907                                         |

#### Note:

- For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.
- Σ(E- Field Strength / Limit): This is a summation of [(E- Field Strength for each transmitter/antenna included in the simultaneous transmission) / (corresponding MPE limit)].
- Considering the collocated transmitters, the aggregated (E- Field Strength /limit) is smaller than 1, and MPE of collocated transmitters is compliant

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