

## 1 GENERAL INFORMATION

### 1.1 Product Description

General:

|                       |   |  |
|-----------------------|---|--|
| Product Name of Host: | AC2600 Wireless Router  |  |
| Brand Name of Host:   | COMTREND  |  |
| Model No of Host.:    | WR-5931   |  |
| Model Difference:     | N/A   |  |
| Hardware Version:     | N/A   |  |
| Software Version:     | N/A   |  |
| Power Supply:         | 12V from DC Power Supply<br>Adapter: Model No.: WB-18D12FU,<br>Supplier: Asian Power Devices Inc. |  |

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## WLAN 2.4GHz:

| Wi-Fi                | Frequency Range   | Channels  | Modulation Technology |
|----------------------|-------------------|---|-----------------------|
| 11b/g                | 2412-2462         | 11  | DSSS OFDM             |
| 11n (2.4GHz)         | HT20<br>2412-2462 | 11  | OFDM                  |
| 11n (2.4GHz)         | HT40<br>2422-2452 | 9   | OFDM                  |
| Antenna Designation: |                   | PCB Antenna<br>1. Part No.: ALA130-051023-000004<br>Supplier: LYNwave<br>2.4GHz Gain: 4.79dBi<br><br>2. Part No.: ALA130-051023-000005<br>Supplier: LYNwave<br>2.4GHz Gain: 4.47dBi<br><br>3. Part No.: ALA130-051023-000003<br>Supplier: LYNwave<br>2.4GHz Gain: 3.48dBi |                       |
| Modulation type      |                   | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM   |                       |
| Transition Rate:     |                   | 802.11 b: 1/2/5.5/11 Mbps<br>802.11 g: 6/9/12/18/24/36/48/54 Mbps<br>802.11 HT20: 6.5 – 72.5Mbps<br>802.11 HT40: 13.5 – 150Mbps   |                       |

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## 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 2.1 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 §2.1093 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

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## 2.2 Maximum Permissible Exposure (MPE) Evaluation

| 802.11b_MIMO |                 |           |                         |       |       |       |                               |                              |                    |        |
|--------------|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------------|------------------------------|--------------------|--------|
| CH           | Frequency (MHz) | Data Rate | Peak Output Power (dBm) |       |       |       | Total Peak Output Power (dBm) | Total Peak Output Power (mW) | Limit              | RESULT |
|              |                 |           | CH 0                    | CH 1  | CH 2  | CH3   |                               |                              |                    |        |
| 1            | 2412            | 1         | 14.35                   | 12.93 | 13.14 | 12.88 | 19.39                         | 86.88                        | 1 Watt = 30.00 dBm | PASS   |
| 6            | 2437            | 1         | 15.59                   | 14.23 | 14.56 | 14.02 | 20.66                         | 116.52                       | 1 Watt = 30.00 dBm | PASS   |
| 11           | 2462            | 1         | 15.31                   | 14.17 | 14.68 | 14.21 | 20.64                         | 115.82                       | 1 Watt = 30.00 dBm | PASS   |

  

| 802.11b_MIMO |                 |           |                         |       |       |       |   |  |                    |        |
|--------------|-----------------|-----------|-------------------------|-------|-------|-------|---|--|--------------------|--------|
| CH           | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) |       |       |       | Max. Output include tune up tolerance Power (dBm) | Max. Output include tune up tolerance Power (mW) | Limit              | RESULT |
|              |                 |           | CH 0                    | CH 1  | CH 2  | CH3   |   |  |                    |        |
| 1            | 2412            | 1         | 11.93                   | 10.53 | 11.12 | 10.57 | 17.10   | 51.24  | 1 Watt = 30.00 dBm | PASS   |
| 6            | 2437            | 1         | 13.02                   | 12.01 | 12.16 | 11.96 | 18.33   | 68.08  | 1 Watt = 30.00 dBm | PASS   |
| 11           | 2462            | 1         | 13.19                   | 11.88 | 12.46 | 11.87 | 18.41   | 69.26  | 1 Watt = 30.00 dBm | PASS   |

### MPE Prediction (802.11b 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

|  |           |                       |
|--|-----------|-----------------------|
| Max. output power including tune-up tolerance:                       | 18.41     | (dBm)                 |
| Max. output power including tune-up tolerance:                       | 69.342581 | (mW)                  |
| Duty cycle:  | 100       | (%)                   |
| Maximum Pav :  | 69.342581 | (mW)                  |
| Peak Antenna gain (Maximum):   | 4.79      | (dBi)                 |
| Peak Antenna gain (linear):  | 3.013006  | (numeric)             |
| Prediction distance:   | 20        | (cm)                  |
| Prediction frequency:  | 2462      | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency at 20 cm | 1         | (mW/cm <sup>2</sup> ) |
| Power density at prediction frequency at 20 cm                       | 0.042     | (mW/cm <sup>2</sup> ) |

### Measurement Result

The predicted power density level at 20 cm is 0.042 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2462MHz.

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## 802.11g\_MIMO

| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) |       |       |       | Total Peak Output Power (dBm) | Total Peak Output Power (mW) | Limit              | RESULT |
|----|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------------|------------------------------|--------------------|--------|
|    |                 |           | CH 0                    | CH 1  | CH 2  | CH3   |                               |                              |                    |        |
| 1  | 2412            | 6         | 20.33                   | 18.87 | 19.54 | 19.06 | 25.51                         | 355.47                       | 1 Watt = 30.00 dBm | PASS   |
| 6  | 2437            | 6         | 22.27                   | 21.42 | 21.73 | 21.44 | 27.75                         | 595.58                       | 1 Watt = 30.00 dBm | PASS   |
| 11 | 2462            | 6         | 20.41                   | 19.15 | 19.66 | 19.13 | 25.64                         | 366.44                       | 1 Watt = 30.00 dBm | PASS   |

## 802.11g\_MIMO

| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) |       |       |       | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit              | RESULT |
|----|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------|------------------------|--------------------|--------|
|    |                 |           | CH 0                    | CH 1  | CH 2  | CH3   |                         |                        |                    |        |
| 1  | 2412            | 6         | 10.31                   | 9.12  | 9.48  | 9.44  | 15.63                   | 36.57                  | 1 Watt = 30.00 dBm | PASS   |
| 6  | 2437            | 6         | 12.79                   | 11.55 | 12.23 | 11.91 | 18.16                   | 65.53                  | 1 Watt = 30.00 dBm | PASS   |
| 11 | 2462            | 6         | 10.21                   | 9.02  | 9.82  | 9.31  | 15.63                   | 36.60                  | 1 Watt = 30.00 dBm | PASS   |

## MPE Prediction (802.11g 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

|  |           |                       |
|--|-----------|-----------------------|
| Max. output power including tune-up tolerance:               | 18.16     | (dBm)                 |
| Max. output power including tune-up tolerance:               | 65.463617 | (mW)                  |
| Duty cycle:  | 82.67     | (%)                   |
| Maximum Pav :  | 54.118773 | (mW)                  |
| Peak Antenna gain (Maximum):                                 | 4.79      | (dBi)                 |
| Peak Antenna gain (linear):                                  | 3.013006  | (numeric)             |
| Prediction distance:   | 20        | (cm)                  |
| Prediction frequency:  | 2437      | (MHz)                 |
| MPE limit for uncontrolled exposure at prediction frequency: | 1         | (mW/cm <sup>2</sup> ) |
| Power density at prediction frequency at 20 cm distance:     | 0.032     | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.032 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2437MHz.

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**802.11n\_HT20M MIMO**

| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) |       |       |       | Total Peak Output Power (dBm) | Total Peak Output Power (mW) | Limit              | RESULT |
|----|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------------|------------------------------|--------------------|--------|
|    |                 |           | CH 0                    | CH 1  | CH 2  | CH3   |                               |                              |                    |        |
| 1  | 2412            | MCS2      | 20.87                   | 19.76 | 20.33 | 20.45 | 26.39                         | 435.62                       | 1 Watt = 27.81 dBm | PASS   |
| 6  | 2437            | MCS2      | 20.80                   | 19.76 | 20.23 | 20.45 | 26.35                         | 431.21                       | 1 Watt = 27.81 dBm | PASS   |
| 11 | 2462            | MCS2      | 20.86                   | 19.68 | 20.39 | 20.32 | 26.35                         | 431.84                       | 1 Watt = 27.81 dBm | PASS   |

**802.11n\_HT20M MIMO**

| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) |       |       |       | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit              | RESULT |
|----|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------|------------------------|--------------------|--------|
|    |                 |           | CH 0                    | CH 1  | CH 2  | CH3   |                         |                        |                    |        |
| 1  | 2412            | MCS2      | 12.48                   | 11.65 | 12.29 | 11.84 | 18.10                   | 64.54                  | 1 Watt = 27.81 dBm | PASS   |
| 6  | 2437            | MCS2      | 12.56                   | 11.73 | 12.37 | 11.82 | 18.15                   | 65.39                  | 1 Watt = 27.81 dBm | PASS   |
| 11 | 2462            | MCS2      | 12.57                   | 11.68 | 12.64 | 11.74 | 18.20                   | 66.09                  | 1 Watt = 27.81 dBm | PASS   |

**MPE Prediction (802.11n20 2412~2462)**

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

**MIMO gain= Directional gain =  $10 \log [(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{ANT}] = 10.43 \text{ dBi}$**

|   |           |                       |
|---|-----------|-----------------------|
| Max. output power including tune-up tolerance:          | 18.20     | (dBm)                 |
| Max. output power including tune-up tolerance:          | 66.069345 | (mW)                  |
| Duty cycle:   | 55.02     | (%)                   |
| Maximum Pav :   | 36.351354 | (mW)                  |
| Peak Antenna gain (Maximum):                            | 10.43     | (dBi)                 |
| Peak Antenna gain (linear):                             | 11.040786 | (numeric)             |
| Prediction distance:                                    | 20        | (cm)                  |
| Prediction frequency:                                   | 2462      | (MHz)                 |
| Uncontrolled exposure at prediction frequency:          | 1         | (mW/cm <sup>2</sup> ) |
| Power density at prediction frequency at 20 cm distance | 0.080     | (mW/cm <sup>2</sup> ) |

**Measurement Result**

The predicted power density level at 20 cm is 0.08 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2462MHz.

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## 802.11n\_HT40M MIMO

| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) |       |       |       | Total Peak Output Power (dBm) | Total Peak Output Power (mW) | Limit              | RESULT |
|----|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------------|------------------------------|--------------------|--------|
|    |                 |           | CH 0                    | CH 1  | CH 2  | CH 3  |                               |                              |                    |        |
| 3  | 2422            | MCS2      | 19.98                   | 19.37 | 19.86 | 19.36 | 25.67                         | 369.16                       | 1 Watt = 27.81 dBm | PASS   |
| 6  | 2437            | MCS2      | 20.92                   | 20.37 | 21.06 | 20.54 | 26.75                         | 473.37                       | 1 Watt = 27.81 dBm | PASS   |
| 9  | 2452            | MCS2      | 20.98                   | 20.25 | 21.02 | 20.42 | 26.70                         | 467.87                       | 1 Watt = 27.81 dBm | PASS   |

## 802.11n\_HT40M MIMO

| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) |       |       |       | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit              | RESULT |
|----|-----------------|-----------|-------------------------|-------|-------|-------|-------------------------|------------------------|--------------------|--------|
|    |                 |           | CH 0                    | CH 1  | CH 2  | CH 3  |                         |                        |                    |        |
| 3  | 2422            | MCS2      | 11.58                   | 10.73 | 11.33 | 11.01 | 17.19                   | 52.42                  | 1 Watt = 27.81 dBm | PASS   |
| 6  | 2437            | MCS2      | 12.76                   | 11.88 | 12.52 | 12.18 | 18.37                   | 68.68                  | 1 Watt = 27.81 dBm | PASS   |
| 9  | 2452            | MCS2      | 12.61                   | 12.09 | 12.76 | 12.24 | 18.45                   | 70.05                  | 1 Watt = 27.81 dBm | PASS   |

## MPE Prediction (802.11n40 2412~2452)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

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

$$\text{MIMO gain} = \text{Directional gain} = 10 \log [(10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(GN/20)})^2 / N_{\text{ANT}}] = 10.43 \text{ dBi}$$

|  |           |                       |
|--|-----------|-----------------------|
| Max. output power including tune-up tolerance:                         | 18.45     | (dBm)                 |
| Max. output power including tune-up tolerance:                         | 69.9842   | (mW)                  |
| Duty cycle:  | 39.77     | (%)                   |
| Maximum Pav :  | 27.832716 | (mW)                  |
| Peak Antenna gain (Maximum):   | 10.43     | (dBi)                 |
| Peak Antenna gain (linear):  | 11.040786 | (numeric)             |
| Prediction distance:   | 20        | (cm)                  |
| Prediction frequency:  | 2437      | (MHz)                 |
| <del>MPE limit for uncontrolled exposure at prediction frequency</del> | 1         | (mW/cm <sup>2</sup> ) |
| <del>Power density at prediction frequency at 20 (cm) distance</del>   | 0.061     | (mW/cm <sup>2</sup> ) |

## Measurement Result

The predicted power density level at 20 cm is 0.061 mW/cm<sup>2</sup>.

This is below the uncontrolled exposure limit of 1 mW/cm<sup>2</sup> at 2437MHz.

~ End of Report ~

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