



Wistron NeWeb Corp.

# APPROVAL SHEET

Customer Name: **Pegatron**

Date: **07/29/2015**

Doc. Version: **1**

|             |                                                    |
|-------------|----------------------------------------------------|
| OEM P/N     | <b>1415-04LP000</b>                                |
| WNC P/N     | <b>1415-04LP000 (81.EL115.GDH)</b>                 |
| Description | <b>SWITCH10"VALUE/P0JBC,ANTENNA,WLANAUX,EL1-U9</b> |
| Version     | <b>A01</b>                                         |

| Provided By<br>Wistron NeWeb Corp | Reviewed By<br>Wistron NeWeb Corp | Approved By<br>Customer |
|-----------------------------------|-----------------------------------|-------------------------|
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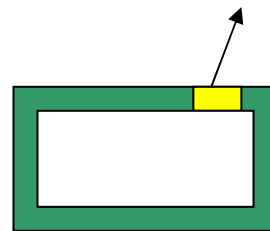
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## 1. Introduction

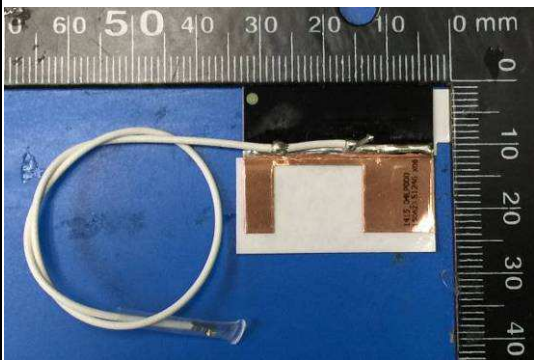
### Antenna for WLAN system

#### WLAN Aux antenna (PIFA type)

WLAN Aux  
Antenna (Right side)



1. Location: Left side of the LCD panel
2. Cable length of WLAN Aux antenna: 190 mm, White (connector with  $\Phi$  1.13mm RF cable)

|              | WLAN Aux Antenna                                                                    |
|--------------|-------------------------------------------------------------------------------------|
| Position     | Right side , side of LCD                                                            |
| Antenna Type | PIFA type                                                                           |
| Cable        | Cable color : White<br>1.13 (dia) x 190 mm,<br>RF connector                         |
| Photo        |  |

## 2. Revision History

| Date       | Version | Change Description |
|------------|---------|--------------------|
| 07/24/2015 | A01     | New Release        |

## 3. Product Specifications

### 3.1 Specifications of Antenna Design

Measure environment LCD angle 110 degree

#### 3.1.1 VSWR

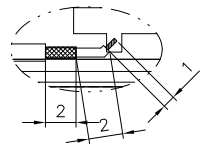
| WLAN Aux | 2400 MHz ~ 2500 MHz | 5150 MHz ~ 5850 MHz |
|----------|---------------------|---------------------|
| VSWR     | <2.5                | <2.5                |

#### 3.1.2 Antenna specification

| WLAN Aux | 2400 MHz ~ 2500 MHz | 5150 MHz ~ 5850 MHz |
|----------|---------------------|---------------------|
| Peak dBi | <3                  | <6                  |

### 3.2 Mechanical Specifications

See the attached drawing.

DD

SCALE : 4/1

SCALE: 1/1

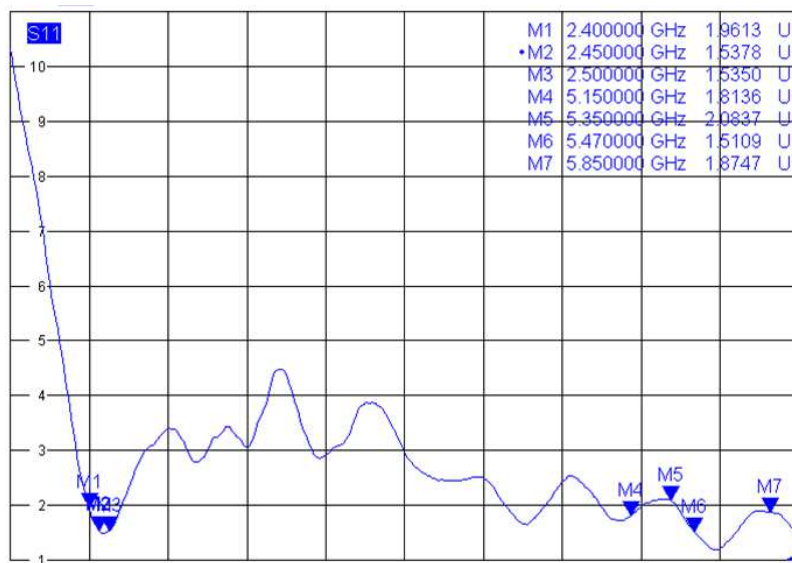
|   |       |     |       |        |
|---|-------|-----|-------|--------|
| 5 | SCALE | 1/1 | SHEET | 1 OF 1 |
|---|-------|-----|-------|--------|

### 3.3 Antenna Material List

| WLAN Aux Antenna |                                |
|------------------|--------------------------------|
| 1.               | Coaxial cable and RF connector |
| 2.               | Transparent tube               |
| 3.               | Tape Adhesive                  |
| 4.               | Plate Copper                   |
| 5.               | Weight:1.3 g                   |

## 4 Antenna Performance

### 4.1 VSWR



## 4.2 Antenna Peak Gain

|                 | Aux antenna      |                |
|-----------------|------------------|----------------|
| Frequency (MHz) | Horizontal (dBi) | Vertical (dBi) |
| 2400            | -2.17            | -1.70          |
| 2450            | -1.93            | -1.30          |
| 2500            | -0.47            | -1.53          |
| 5150            | -2.64            | -2.01          |
| 5250            | -1.95            | -2.85          |
| 5350            | -2.38            | -1.00          |
| 5470            | -1.14            | 0.77           |
| 5600            | -0.99            | 0.30           |
| 5725            | -1.24            | -0.34          |
| 5785            | -1.02            | -0.63          |
| 5850            | -1.76            | 0.04           |

## 4.3 Antenna Pattern

