

Dated 7<sup>th</sup> August 2008

Tom Twynam  
Principal Telecommunications Engineer  
BABT TCB  
Balfour House  
Churchfield Road,  
Walton-on-Thames,  
Surrey,  
KT12 2TD

Dear Mr Tom Twynam

**Re: Bluetooth and WiFi Antenna**

We, RDT limited of The Old Coach House, The Avenue, Farleigh Wallop, Hampshire, RG25 2HT hereby declare that we have not modified the Bluetooth and WiFi Antenna and they are identical to those shown in the grants for the modules.

1. Antenna Description and Type:

Bluetooth Antenna

- o Advanced Ceramics type AT3216
- o Specifications Part Number AT3216 -B2R7HAA
- o Frequency Range (MHz) 2400 ~ 2500
- o Peak Gain (XZ-V) 0.5 dBi typ.
- o Average Gain (XZ-V) -0.5 dBi typ.
- o VSWR 2 max.
- o Impedance 550  $\Omega$

|  |         |         |
|--|---------|---------|
| Antenna Length (if Known):   | 8mm     |         |
| Product Model Number:  | 00-1001 |         |
| Frequency:   | Top:    | 2480MHz |
|  | Middle: | 2441MHz |
|  | Bottom: | 2402MHz |
| Maximum Power – Input to the Antenna:  |         | 0.023W  |
| Antenna Gain (or maximum gain allowed):  |         | 0.5dBi  |
| Separation Distance from Antenna (minimum distance between user and equipment antenna) (if greater than 20cm): |         | 20cm    |

**Registered office:**

**RDT Ltd**, The Old Coach House, The Avenue, Farleigh Wallop, Hampshire, RG25 2HT, UK

Registered in England No. 3321782 VAT No. 692 9012 19 LLC No. 4148022

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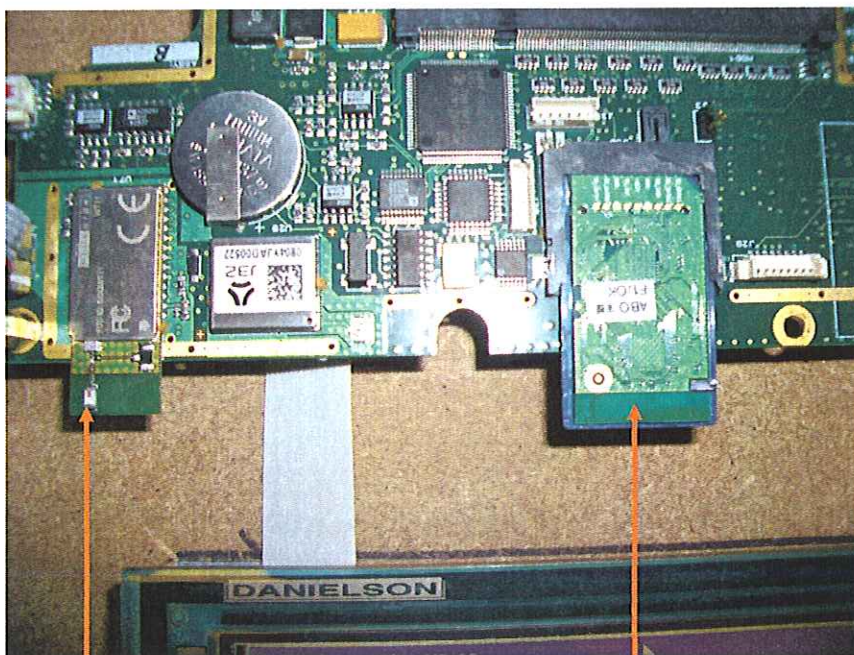
[info@rdtltd.com](mailto:info@rdtltd.com)

## WiFi Antenna

- o Antenna is formed by copper track on the PCB.

|  |         |          |
|--|---------|----------|
| Antenna Length (if Known):   | 22.4mm  |          |
| Product Model Number:  | 00-1001 |          |
| Frequency:   | Top:    | 2484MHz  |
|  | Middle: | 2437MHz  |
|  | Bottom: | 2412MHz  |
| Maximum Power – Input to the Antenna:  |         | 0.01524W |
| Antenna Gain (or maximum gain allowed):  |         | 1.98dBi  |
| Separation Distance from Antenna (minimum distance between user and equipment antenna) (if greater than 20cm): |         | 20cm     |
| Separation Distance between Bluetooth and WiFi Antenna   |         | 75mm     |

## 2. Internal Photos of Antenna Placements:



Bluetooth Antenna

WiFi Antenna

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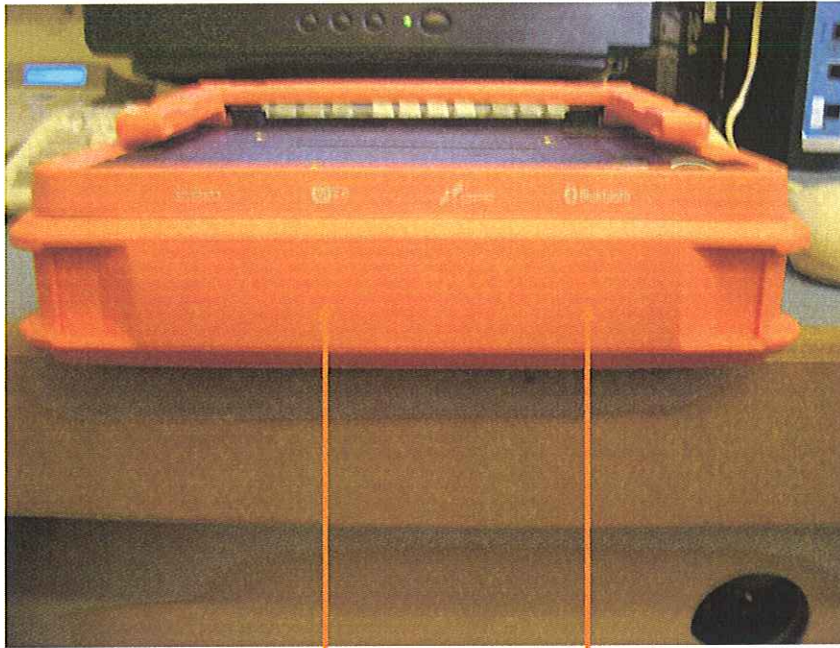
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3. External Photos of Antenna Placements:



WiFi Antenna

Bluetooth Antenna

Sincerely,

*Mark Newman*  
7/5/12

Quality Systems Manager: Mr Mark Newman

Telephone Number: +44 (0) 1256 362419

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