

Antenna Regulatory Information

| | |
|---------------------------|--------------------|
| • Product type | • UWB antenna |
| • Model number | • Gilligan/ Yabizu |
| • Revision | • A00 |
| • Manufacturer Part No. : | • QT0381-11-000-R |
| • Dell Part No. : | • |

Amphenol

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Template Revision 052107

1. Specifications

Antenna Specifications

| | |
|---|--|
| Antenna Type (Material, Technology) | IFA Flex, Inverted-F Antenna (IFA) |
| Antenna Model Number | DELL Gilligan/ Yebisu |
| Operating Frequency Range(s) | BG1: 3.168~4.752 GHz |
| Peak Gain (dBi) | BG1: 2.91 dBi |
| | BG3: N/A |
| Radio Connector Type | Hirose U.FL-LP-88 or IPEX 20308-111R-32/ 20363-111R-37 or equivalent connector |
| Mid-Line Connector Type (If Applicable) | N/A |

Remark: Peak Gains include all system losses (connector, cable, etc)

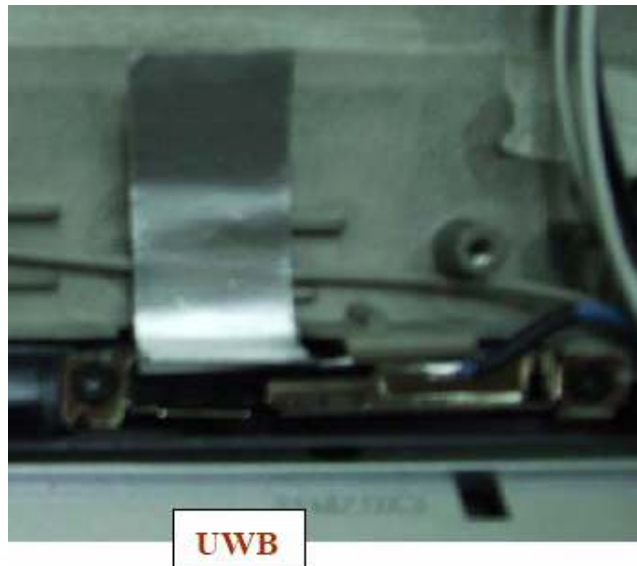
Cable Specifications

| Cable Parameters | UWB antenna | | |
|---|---|-----------|---------|
| | LCD Side | Base Side | Total |
| Length (mm) | 8 mm | 120 mm | 128 mm |
| Loss (Including Connectors) (dB, 4GHz) | | | 0.39 dB |
| Description (Color, Diameter, Manufacturer) | Color: Blue OD: 1.32~1.37 mm GBE R4 | | |

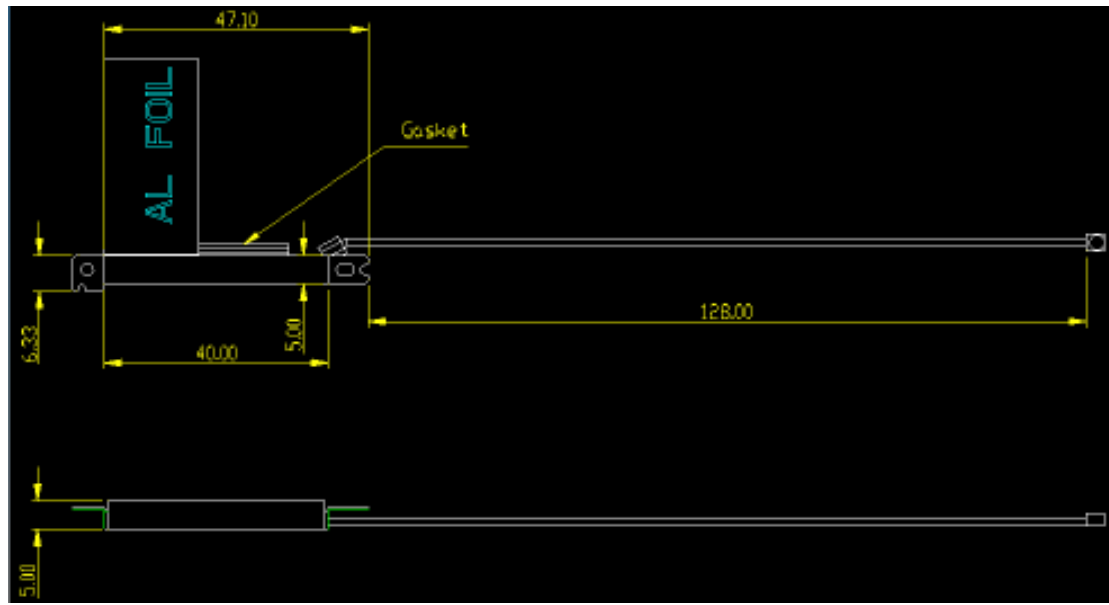
2. Antenna Assembly



3. Antenna Assembly Installed in The Notebook

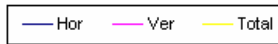
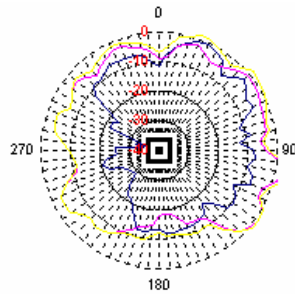


4. Mechanical Drawing of Antennas

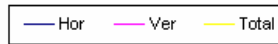
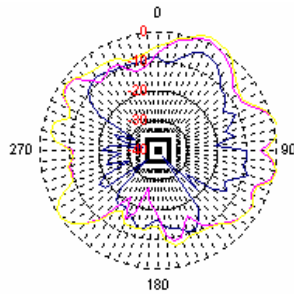


5. Gain Patterns

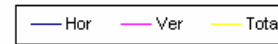
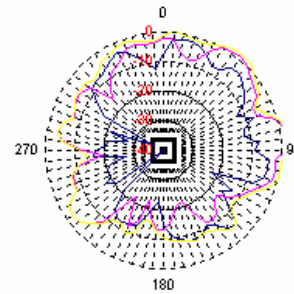
- BG1:



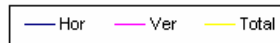
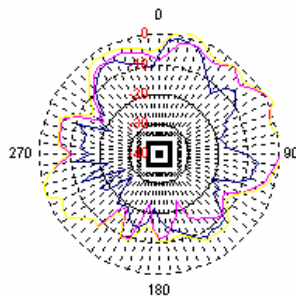
| Centre Frequency | 3168 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -0.62 |
| Vertical peak gain (dBi) | 2.22 |
| Hori + Vert peak gain (dBi) | 2.51 |



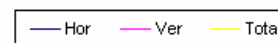
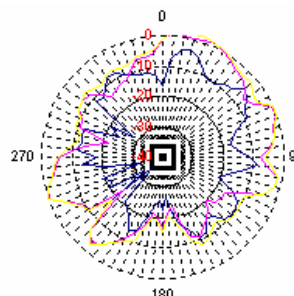
| Centre Frequency | 3300 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -3.56 |
| Vertical peak gain (dBi) | 1.33 |
| Hori + Vert peak gain (dBi) | 2.18 |



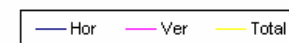
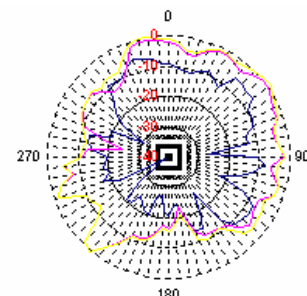
| Centre Frequency | 3432 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -1.88 |
| Vertical peak gain (dBi) | 2.91 |
| Hori + Vert peak gain (dBi) | 3.43 |



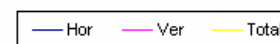
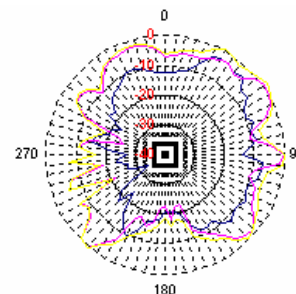
| Centre Frequency | 3564 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -1.00 |
| Vertical peak gain (dBi) | 1.88 |
| Hori + Vert peak gain (dBi) | 1.94 |



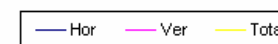
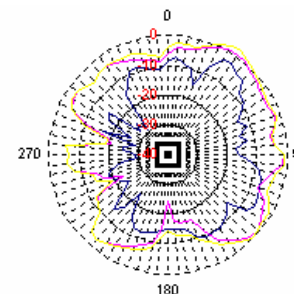
| Centre Frequency | 3696 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -3.74 |
| Vertical peak gain (dBi) | 1.24 |
| Hori + Vert peak gain (dBi) | 1.91 |



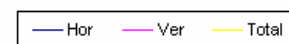
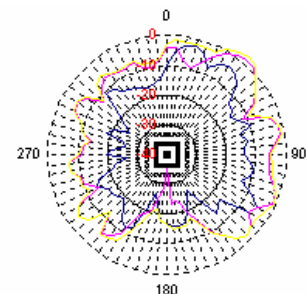
| Centre Frequency | 3828 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -5.42 |
| Vertical peak gain (dBi) | 0.34 |
| Hori + Vert peak gain (dBi) | 1.05 |



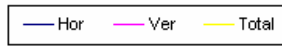
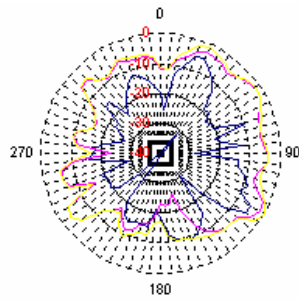
| Centre Frequency | 3960 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -2.36 |
| Vertical peak gain (dBi) | 0.60 |
| Hori + Vert peak gain (dBi) | 1.41 |



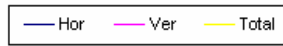
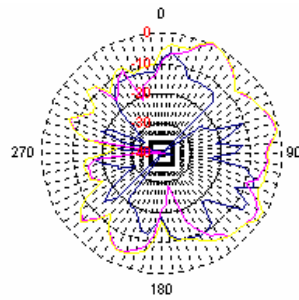
| Centre Frequency | 4092 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -2.72 |
| Vertical peak gain (dBi) | 0.76 |
| Hori + Vert peak gain (dBi) | 2.37 |



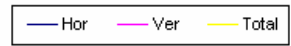
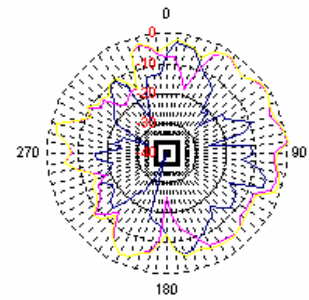
| Centre Frequency | 4224 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -2.81 |
| Vertical peak gain (dBi) | 1.55 |
| Hori + Vert peak gain (dBi) | 2.51 |



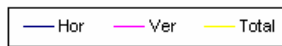
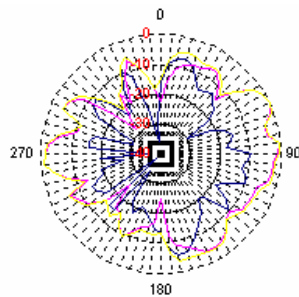
| Centre Frequency | 4356 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -5.06 |
| Vertical peak gain (dBi) | -1.36 |
| Hori + Vert peak gain (dBi) | -0.14 |



| Centre Frequency | 4488 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -6.32 |
| Vertical peak gain (dBi) | 0.12 |
| Hori + Vert peak gain (dBi) | 0.31 |



| Centre Frequency | 4620 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -3.35 |
| Vertical peak gain (dBi) | 0.23 |
| Hori + Vert peak gain (dBi) | 0.40 |



| Centre Frequency | 4752 MHz |
|-----------------------------|----------|
| Horizontal peak gain (dBi) | -5.60 |
| Vertical peak gain (dBi) | 0.14 |
| Hori + Vert peak gain (dBi) | 0.17 |