December 21, 2016

Alex Morin
Permit-Me for AT&T Mobility
13 Sutro Court
Novato, CA 94947

Site Address: Citywide
Assessor's Block/Lot: Various
Zoning District: Various
Staff Contact: Ashley Woods - (415) 575-9178 or Ashley.Woods@sfgov.org
Record Number: 2016-014490ZAD

Dear Mr. Morin:

This letter is in response to your request for a Letter of Determination (LOD) as to whether minor upgrades may be made to existing AT&T Mobility Wireless Telecommunication Services (WTS) Facilities that were previously approved as Accessory Uses under Planning Code Section 204 and consistent with prior Letters of Determination.

On August 2, 2016, the Board of Supervisors adopted Ordinance No. 16-166 (Planning Code - Wireless Telecommunications Services Facilities) which, among other things, amended the Planning Code to add “Micro WTS Facilities” as a use category which is principally permitted in all zoning districts subject to specific limitations. Micro WTS Facilities is defined as follows:

**Wireless Telecommunications Services (WTS) Facility, Micro.** The Zoning Administrator shall determine whether a proposed WTS Facility is a Micro WTS Facility. A Micro WTS Facility is generally characterized by

(a) limited spatial effects;
(b) a small number of antennas (typically up to two);
(c) an absence of substantial cumulative effects on neighborhood character or aesthetics, when considered in conjunction with other WTS Facilities at the same project site; and
(d) a location that is not “disfavored” as specified in the Guidelines.

WTS Facilities which were previously authorized as Accessory Uses in prior Letters of Determination are generally considered to be Micro WTS Facilities provided they comply with all limitations outlined in previous determinations.

After reviewing previous determinations, relevant Planning Code provisions, example microcell site modifications provided during a Project Review meeting with Planning staff (2016-013298PRV), and the information submitted with your letter, it is my determination that the proposed upgrades to existing
facilities as described below would be consistent with the definition of Micro WTS Facilities based upon
the following:

1. In areas considered Location Preferences 1 through 6, as outlined by the Wireless
Telecommunication Services (WTS) Guidelines, installations may feature one of the following
configurations:
   a. **Option 1 – Tri-Directional Antennas:** Up to two separate antennas measuring
      approximately 24” high with a maximum diameter of 16”.
   b. **Option 2 – Micro Panel Antenna:** Up to two separate antennas measuring approximately
      27.66” high x 13.78” wide x 6.05” deep.

2. Based on specifications submitted with your letter and example upgrades provided during the
Project Review meeting (2016-013298PRV), the proposed installations must not have any adverse
aesthetic or visual effect on the subject properties or the surrounding vicinities, and must adhere
to the following:
   a. The new antennas shall not be façade mounted.
   b. The new antennas should be attached to an existing (where possible) pipe mount that is
      attached to a parapet wall or penthouse; if that is not feasible, the antenna should be
      placed on the flat-roof of a stair/elevator penthouse using a non-penetrating tripod
      mount.
   c. The new antennas shall not extend any more than necessary above the roofline of the
      subject building and shall have an appropriate setback from the roof edge.
   d. Associated coaxial cables, as needed, shall be sufficiently screened from public view.
   e. Where the new antennas would be screened within existing storefront elements (e.g.
      project signs or awnings) such elements are permitted, and have been determined to be
      in conformance with the Planning Code.
   f. The installation shall be painted to match the color of the existing building, concealed,
      screened and/or otherwise designed to blend with the existing architectural features,
      minimizing them from public view.

3. Individual emission calculations for each site shall be provided to the Department of Public
Health for review.

4. Any proposed installation will undergo design review by the Planning Department and will only
be approved once the Department’s design standards are met.

5. Antennas that are proposed on a building of historical or architectural significance must undergo
additional review by the Planning Department’s Historic Preservation staff and/or Historic
Preservation Commission.

6. For proposed facilities, AT&T Mobility must meet all requirements set forth within the Planning
Department’s WTS Facility Siting Guidelines and WTS Application Checklist for Micro WTS
Facilities (pending).

7. This determination shall not apply to sites that feature an existing macro AT&T Mobility WTS
Facility, or to installations within the public right-of-way.

8. This determination does not supersede previous site-specific AT&T Mobility Letters of
Determination; however, in the event a removal permit is issued, this determination may be
applied to such sites in-lieu of the previous site-specific LOD.
Please note that a Letter of Determination is a determination regarding the classification of uses and interpretation and applicability of the provisions of the Planning Code. This Letter of Determination is not a permit to commence any work or change occupancy. Permits from appropriate Departments must be secured before work is started or occupancy is changed.

APPEAL: If you believe this determination represents an error in interpretation of the Planning Code or abuse in discretion by the Zoning Administrator, an appeal may be filed with the Board of Appeals within 15 days of the date of this letter. For information regarding the appeals process, please contact the Board of Appeals located at 1650 Mission Street, Room 304, San Francisco, or call (415) 575-6880.

Sincerely,

Scott F. Sanchez
Zoning Administrator

cc: Ashley Woods, Planner
    Citywide Neighborhood Group Mailing List
October 20, 2016

Scott Sanchez
Zoning Administrator
1650 Mission Street, Suite 400
San Francisco, CA 94103

RE: ATT Letter of Determination Request- Microcell Facilities

Dear Mr. Sanchez:

ATT is currently in the process of upgrading a number of existing microcell antenna sites in San Francisco. ATT requests a Letter of Determination (LOD) that the wireless telecommunications facilities described below will continue to be considered an “accessory use” under section 204 of the Planning Code in Location Preferences 1 through 6 as set forth in Section 8.1 of the Wireless Telecommunications Services (WTS) Facilities Siting Guidelines. This request is consistent with similar accessory uses authorized by letters of determination issued to other wireless service providers and ATT.

ATT is requesting a LOD in order to allow it to install small-cell technology to improve its San Francisco network. A description of the two requested designs is as follows:

Tri-directional antenna- Two 24” high x 16” diameter antennas. See Exhibit A for additional antenna information.

Micro panel antenna- Two 27.66” high x 13.78 wide x 6.05” diameter antennas. See Exhibit B for additional antenna information.

As appropriate, all components shall be painted to match the color of the existing building to blend into the existing built environment or screened as necessary.

Each proposed facility shall comply with Planning Department design review. In compliance with the San Francisco Building Code, electrical and building permits shall be obtained prior to each installation.

Individual emissions calculations for each microcell will be provided to the Department of Public Health for review and approval.

We hope to streamline the permitting process to allow for this minor change rather than fully upgrading the wireless facilities and thus creating additional visual impacts by adding much more equipment to each site.

Please feel free to contact me with any questions that you may have regarding this request.

Sincerely,

Alex Morin
Agent for ATT Mobility
13 Sutro Court
Novato CA, 94947
530.219.8903
alex.morin@ymail.com

Exhibit A: Tri-directional antenna manufacturers specifications
Exhibit B: Micro panel antenna manufacturers specifications
Exhibit A- Tri directional Antenna Specs
### 12-Port Tri-Sector Antenna

**Frequency Range**
- 698-960
- 1695-2690

**Dual Polarization**

**HPBW**

**Fixed Electr. DT**

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#### 12-Port Tri-Sector Antenna 698-960/1695-2690 65°/65° 11/13dBi 2°/2°T with GPS

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<th>Type No.</th>
<th>80010775</th>
<th>80010776</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radome Colour</td>
<td>Brown</td>
<td>Grey</td>
</tr>
<tr>
<td>Low band</td>
<td>698-960</td>
<td>Electrical data per sector</td>
</tr>
<tr>
<td>Frequency range</td>
<td>MHz</td>
<td>698 - 824</td>
</tr>
<tr>
<td>Polarization</td>
<td>°</td>
<td>+45, -45</td>
</tr>
<tr>
<td>Gain</td>
<td>dBi</td>
<td>2 x 10.0</td>
</tr>
</tbody>
</table>

**Horizontal Pattern:**

- Half-power beam width | ° | 73 | 67 | 65 |
- Front-to-back ratio, copolar | dB | > 26 | > 26 | > 30 |
- Cross polar ratio | dB | Typically: 19 | Typically: 30 | Typically: 30 |
- Main direction | Sector | 0° | ±60° |

**Vertical Pattern:**

- Half-power beam width | ° | 42 | 40 | 36 |
- Electrical tilt | ° | 2, fixed |
- Impedance | Ω | 50 |
- VSWR | | < 1.55 | < 1.5 |
- Isolation |
  - Intrasystem | dB | > 25 |
  - Intersystem | dB | > 26, typ. 30 | > 23, typ. 30 |
  - (698-894/1695-2690) | | | (880-960/1695-2690) |
- Intermodulation IM3 | dBc | < -153 (2 x 43 dBm carrier) |
- Max. power per input | W | 250 (at 50 °C ambient temperature) |
- Max. power for the antenna | W | 900 (at 50 °C ambient temperature) |

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All specifications are subject to change without notice. The latest specifications are available at www.kathreinusa.com

Kathrein USA Greenway Plaza II, 2400 Lakeside Blvd., Suite 650, Richardson TX 75082
Phone: 214.238.8800 Fax: 214.238.8801 Email: info@kathrein.com
## 12-Port Tri-Sector Antenna

### High band

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
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<td>°</td>
<td>+45, -45</td>
<td>+45, -45</td>
<td>+45, -45</td>
<td>+45, -45</td>
<td></td>
</tr>
<tr>
<td>Gain dB</td>
<td></td>
<td>2 x 13.5</td>
<td>2 x 13.5</td>
<td>2 x 13.2</td>
<td>2 x 13.5</td>
<td>2 x 14.0</td>
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### Horizontal Pattern:

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<tr>
<th>Half-power beam width</th>
<th>°</th>
<th>60</th>
<th>60</th>
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<th>60</th>
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<tbody>
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<td>Front-to-back ratio, copolar dB</td>
<td>&gt; 30</td>
<td>&gt; 30</td>
<td>&gt; 30</td>
<td>&gt; 30</td>
<td>&gt; 30</td>
<td></td>
</tr>
<tr>
<td>Cross polar ratio Maindirection Sector 0° - 60° dB</td>
<td>Typically: 25 &gt; 9</td>
<td>Typically: 25 &gt; 9</td>
<td>Typically: 25 &gt; 8</td>
<td>Typically: 25 &gt; 8</td>
<td>Typically: 25 &gt; 8</td>
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</tr>
</tbody>
</table>

### Vertical Pattern:

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<tr>
<th>Half-power beam width</th>
<th>°</th>
<th>18</th>
<th>17.5</th>
<th>16.5</th>
<th>14.5</th>
<th>14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical tilt</td>
<td>°</td>
<td></td>
<td>2, fixed</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impedance Ω</td>
<td></td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VSWR</td>
<td>&lt; 1.6</td>
<td>&lt; 1.55</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isolation Intrasystem Intersystem dB</td>
<td>&gt; 25</td>
<td>&gt; 30 (1695-2690 // 698-960)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intermodulation IM3 dBc</td>
<td>&lt; -153 (2 x 43 dBm carrier)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. power per input W</td>
<td>200 (at 50 °C ambient temperature)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</table>

**GPS specifications**

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<tr>
<th>Frequency range</th>
<th>MHz</th>
<th>1575.42 ± 3</th>
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<tbody>
<tr>
<td>LNA gain dB</td>
<td></td>
<td>27 typical</td>
</tr>
<tr>
<td>Pre-amp filtering dB</td>
<td>-30 at ± 100 MHz</td>
<td></td>
</tr>
<tr>
<td>Polarization</td>
<td>Right-hand circular</td>
<td></td>
</tr>
<tr>
<td>H-plane beam width</td>
<td>Omni</td>
<td></td>
</tr>
<tr>
<td>E-plane half-power beam width °</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>N female</td>
<td></td>
</tr>
<tr>
<td>DC power Vdc</td>
<td>+3-5.5, 18-25 mA Through N output connector</td>
<td></td>
</tr>
<tr>
<td>Temperature range °C</td>
<td>-35 to +70</td>
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</table>

**Mechanical specifications**

<table>
<thead>
<tr>
<th>Input</th>
<th>12 x 7-16 connector female</th>
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<tr>
<td>Connector position</td>
<td>Bottom</td>
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<tr>
<td>Weight kg</td>
<td>18.9</td>
</tr>
<tr>
<td>Weight lb</td>
<td>41.7</td>
</tr>
<tr>
<td>Wind load N (at Rated Wind Speed: 150 km/h)</td>
<td>138</td>
</tr>
<tr>
<td>Wind load lbf</td>
<td>32</td>
</tr>
<tr>
<td>Max. wind velocity km/h</td>
<td>242</td>
</tr>
<tr>
<td>Max. wind velocity mph</td>
<td>150</td>
</tr>
<tr>
<td>Packing size mm</td>
<td>755 x 480 x 480</td>
</tr>
<tr>
<td>Packing size inches</td>
<td>29.7 / 19.9 / 18.9</td>
</tr>
<tr>
<td>Height / diameter mm</td>
<td>626 x 407</td>
</tr>
<tr>
<td>Height / diameter inches</td>
<td>24.6 / 16</td>
</tr>
</tbody>
</table>
Accessories
General Information

Antenna area:
- Reflectors screen: Aluminum, radiator: Tin-plated zinc.
- Cylindrical fiberglass radome: The max. radome diameter is 407 mm | 16 inches. fiberglass material guarantees optimum performance with regards to stability, stiffness, and painting.

Mounting:
- Designed to be mounted on top of a utility pole using a custom mounting bracket supplied by the customer.

Arrows indicate the direction of maximum signal strength.
Customer supplied mounting bracket must fit within a 254 mm | 10 inches circle.
Avoid obstructing the three drain holes.

All dimensions in mm | inches

1-14 threaded rod
20 mm max.
0.79 inches max.
Flat washer
Split ring lock washer
1-14 hex nut (requires a 1½" wrench)
torque setting: 122 N·m | 90 lbf·ft

Any previous data sheet issues have now become invalid.
All specifications are subject to change without notice.
The latest specifications are available at www.kathreinusa.com

Kathrein USA Greenway Plaza II, 2400 Lakeside Blvd., Suite 650, Richardson TX 75082
Phone: 214.238.8800 Fax: 214.238.8801 Email: info@kathrein.com
General Information
about Panel Antennas

Environmental conditions:
Kathrein cellular antennas are designed to operate under the environmental conditions as described in ETS 300 019-1-4 class 4.1 E. The antennas exceed this standard with regard to the following items:
- Low temperature: -55 °C
- High temperature (dry): +60 °C
For antennas equipped with FlexRET: The electrical downtilt adjusting is designed to operate under the environmental conditions as described in the valid data sheet of the FlexRET.

Ice protection: Due to the very sturdy antenna construction and the protection of the radiating system by the radome, the antenna remains operational even under icy conditions.

Environmental tests:
Kathrein antennas fulfil the stated specifications after completion of the environmental tests as defined in ETS 300 019-2-4. The homogenous design of Kathrein's antenna families uses identical modules and materials. Extensive tests have been performed on typical samples and modules. The vibration test has been adapted relating to frequency and acceleration to the conditions of mast mounted antennas.

Please note:
As a result of more stringent legal regulations and judgements regarding product liability, we are obliged to point out certain risks that may arise when products are used under extraordinary operating conditions.

The mechanical design is based on the environmental conditions as stipulated in ETS 300 019-1-4. Wind loads are calculated according to DIN 1055-4. The antennas may be used at locations where the anticipated peak wind velocity or gust wind speed lies within the maximum wind speed listed in the data sheet. We warrant the mechanical safety and electrical functionality under such conditions. The wind speeds are defined in accordance with the DIN, EN or TIA standards. This warranty makes allowance for the partial safety factors specified in those standards. Extraordinary operating conditions, such as heavy icing or exceptional dynamic stress (e.g. strain caused by oscillating support structures), may result in the breakage of an antenna or even cause it to fall to the ground. These facts must be considered during the site planning process.

The details given in our data sheets have to be followed carefully when installing the antennas and accessories. Site planning and installation must be carried out by qualified and experienced staff. All relevant national safety regulations must be upheld and respected. Incorrect site planning, faulty installation, as well as interfering surroundings on site, may lead to deviations in the electrical parameters compared to those specified in the respective data sheets. The connectors on this product are only suitable for connecting to the compatible counterpart. Please ensure that the connected cable has been fitted with a connector of the same standard, otherwise damage may occur.

Any previous data sheet issues have now become invalid. All specifications are subject to change without notice. The latest specifications are available at www.kathreinusa.com
Exhibit B - Micro Panel Antenna Specs
Filtronic Next Generation Base Station Antennas

- Innovative Ultra Wideband Slotted Disc Antenna Technology
- High Gain per Length
- Supports MIMO: 2x2 on Low Band and 4x4 on High Band

<table>
<thead>
<tr>
<th>Frequency Range [MHz]</th>
<th>698—793</th>
<th>792—862</th>
<th>880—960</th>
<th>1710—1880</th>
<th>1850—1990</th>
<th>1920-2170</th>
<th>2300—2500</th>
<th>2500—2690</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain, average [dBi]</td>
<td>11.8</td>
<td>12.0</td>
<td>12.3</td>
<td>14.3</td>
<td>14.8</td>
<td>15.2</td>
<td>16.2</td>
<td>16.4</td>
</tr>
<tr>
<td>Gain, Over All Tilts [dBi]</td>
<td>11.8±0.5</td>
<td>12.0±0.5</td>
<td>12.3±0.5</td>
<td>14.3±0.5</td>
<td>14.8±0.5</td>
<td>15.2±0.5</td>
<td>16.2±0.5</td>
<td>16.4±0.5</td>
</tr>
<tr>
<td>Azimuth Beamwidth [°]</td>
<td>70±5.0</td>
<td>65±5.0</td>
<td>63±5.0</td>
<td>69±5.0</td>
<td>65±5.0</td>
<td>63±5.0</td>
<td>60±5.0</td>
<td>60±5.0</td>
</tr>
<tr>
<td>Elevation Beamwidth [°]</td>
<td>35±3.0</td>
<td>32±3.0</td>
<td>30±3.0</td>
<td>14.0±3.0</td>
<td>13.5±0.8</td>
<td>12.2±0.8</td>
<td>10.3±0.8</td>
<td>10.7±0.8</td>
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<tr>
<td>Electrical Downlift [°]</td>
<td>8°</td>
<td>4°</td>
<td>4°</td>
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<td>4°</td>
<td>4°</td>
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<td>Elevation Downlift Deviation [°]</td>
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<td>1.5</td>
<td>1.5</td>
<td>0.8</td>
<td>0.8</td>
<td>0.8</td>
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<tr>
<td>Cross Polar Discrimination Over Sector [dB]</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
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<tr>
<td>Cross Polar Discrimination Over 3dB Azimuth Beamwidth [dB]</td>
<td>20</td>
<td>20</td>
<td>20</td>
<td>15</td>
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<td>First Upper Side Lobe Suppression [dB]</td>
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<tr>
<td>Upper Side Lobe Suppression [dB]</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
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<tr>
<td>Polarization [°]</td>
<td>±45</td>
<td>±45</td>
<td>±45</td>
<td>±45</td>
<td>±45</td>
<td>±45</td>
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<tr>
<td>Impedance [Ω]</td>
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<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
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</tr>
<tr>
<td>VSWR</td>
<td>&lt; 1.43:1</td>
<td>&lt; 1.43:1</td>
<td>&lt; 1.43:1</td>
<td>&lt; 1.43:1</td>
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<td>&lt; 1.43:1</td>
<td>&lt; 1.43:1</td>
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<td>Cross Polar Isolation [dB]</td>
<td>&gt; 35</td>
<td>&gt; 35</td>
<td>&gt; 35</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
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<tr>
<td>Intercollateral Isolation [dB]</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
<td>&gt; 45</td>
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</tr>
<tr>
<td>Maximum Effective Power Per Port [W]</td>
<td>300</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
</tbody>
</table>

MECHANICAL SPECIFICATIONS

- Antenna Dimensions: Length, Width, Depth [mm] 703 x 350 x 154 (23.7 x 13.8 x 6.1")
- Packing Size: Length, Width, Depth [mm] 1000 x 500 x 300
- Net Weight (antenna) [kg] 8.0 (17.7 lb)
- Net Weight (mount) [kg] 5.0 (11.0 lb)
- Shipping Weight [kg] 15.0 (33.0 lb)
- Connector Type: 7/16 DIN Female (long neck)
- Connector Quantity: 6
- Connector Position: Bottom
- Wind load, Calculation [km/h] 266 (93.2 mph)
- Wind load, Maximum [N] 330
- Wind load, Frontal [N] 265
- Wind load, Lateral [N] 50
- Survival Wind Speed [km/h] 241 (150 mph)
- Radome Material: GRP
- Radome Color [RAL] 7035 (Light Gray)
- Product Environmental Compliance: RoHS
- Mechanical Distance between Mounting Points—Antenna [mm] 604.5
- Mechanical Distance between Mounting Points—Pole [mm] TBD
- Lightning Protection: DC ground

EMEA
Filtronic Wireless Ltd
Unit 3, Airport West
Lancaster Way,
Yeadon, Leeds LS19 7ZA
United Kingdom
+44 (0)113 220 0000

Americas
Filtronic Wireless Inc.
700 Marvel Rd
Sallisau, MO 21801
United States of America
+1 410 202 8811

DTS-P6T2BF-V1-5
P6T2BF-V1 — 6-Port, 65 Degree Ultra Wideband Base Station Sector Antenna

LAYOUT OF INTERFACE
(BOTTOM VIEW)

ANTENNA LAYOUT

Base Station Antenna Environmental Compliance

<table>
<thead>
<tr>
<th>Standard</th>
<th>Class</th>
</tr>
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<tbody>
<tr>
<td>ETSI EN300019-1-1 for storage</td>
<td>Class 1.2</td>
</tr>
<tr>
<td>ETSI EN300019-1-2 for transportation</td>
<td>Class 2.3</td>
</tr>
<tr>
<td>ETSI EN300019-1-4 for environmental conditions</td>
<td>Class 4.1E</td>
</tr>
<tr>
<td>Cold Temperature Survival (°C)</td>
<td>-40 (-40 °F)</td>
</tr>
<tr>
<td>Hot Temperature Survival (°C)</td>
<td>+60 (+140 °F)</td>
</tr>
</tbody>
</table>

Accessories | Part No.       |
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Fixed Mounting Bracket (1pcs)</td>
<td>KIT-000014</td>
</tr>
<tr>
<td>Tilt Mounting Bracket (1pcs)</td>
<td>KIT-000015</td>
</tr>
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</table>

Part Numbers/Ordering | Part No.          |
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>6-Port, 65 Degree UB Antenna</td>
<td>P6T2BF01-V1</td>
</tr>
</tbody>
</table>

Network planning files, RET configurations files and data sheet in NGMN XML-format is available on request:
FWSALES@FILTRONIC.COM

All specifications are subject to change without notice. Revised: May 16th, 2014

ISO 9001
ISO 14001

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RoHS

Filtronic
DTS-P6T2BF-V1-5