Each Flexcomm™ Transceiver installation requires an antenna. We supply several different antennas for the RT-5000 that cover the whole 29.7 to 960 MHz frequency range of the Transceiver. If antenna height is a critical factor, the AT-5000 should be specified since it is only 5.5” tall. For the best performance overall, we suggest the 9.5” AT-560. If your application does not require long range operation below 120 MHz, the AT-160 will work very well at considerably lower cost. It is a passive multiband antenna with the same dimensions as the AT-560. The table below shows the antenna options available for each FM tactical Transceiver.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-014235-01</td>
<td>AT-35 Antenna 29.7-50 MHz, 24.5” Tuned Whip, 45 DEG</td>
</tr>
<tr>
<td>121-0019-000</td>
<td>AT-695 Antenna 138-174 MHz, 17” Passive Whip</td>
</tr>
<tr>
<td>121-0011-000</td>
<td>AT-461 Antenna 450-470 MHz 3.5” Passive Blade, Wht</td>
</tr>
<tr>
<td>121-014378-01</td>
<td>AT-462 Antenna 406-512 MHz 3.5” Passive Blade, Wht</td>
</tr>
<tr>
<td>121-049075-01</td>
<td>AT-806 Antenna, 806-960 MHz, Passive Blade, Wht</td>
</tr>
<tr>
<td>121-0018-000</td>
<td>AT-33 Antenna 138-174 &amp; 400-512 MHz, Dual Band 15” Passive Blade, Wht</td>
</tr>
<tr>
<td>121-040089-01</td>
<td>AT-399B Antenna 30-175 &amp; 225-400 MHz 42” Whip</td>
</tr>
<tr>
<td>121-016587-01</td>
<td>AT-50 Antenna 29.7-400 MHz, 16” Tuned Blade, Wht, GASKET &amp; FC-50 REQ’D</td>
</tr>
<tr>
<td>121-016796-01</td>
<td>AT-51 Antenna 29.7-400 MHz, 6.5” Tuned Blade, Wht, GASKET &amp; FC-50 REQ’D</td>
</tr>
<tr>
<td>121-040129-01</td>
<td>AT-160 Antenna 29.7-960 MHz, 9.5” Passive Blade, Wht</td>
</tr>
<tr>
<td>121-040129-02</td>
<td>AT-160 Antenna 29.7-960 MHz, 9.5” Passive Blade, Blk</td>
</tr>
<tr>
<td>121-016821-01</td>
<td>AT-400 Antenna 400-960 MHz, 5.5” Passive Blade, Wht, GASKET REQ’D</td>
</tr>
<tr>
<td>121-040130-01</td>
<td>AT-560 Antenna 29.7-960 MHz, 9.5” Tuned Blade, Wht, FC-5000 REQ’D</td>
</tr>
<tr>
<td>121-040130-02</td>
<td>AT-560 Antenna 29.7-960 MHz, 9.5” Tuned Blade, Blk, FC-5000 REQ’D</td>
</tr>
<tr>
<td>121-040045-01</td>
<td>AT-5000 Antenna 29.7-960 MHz, 5.5” Tuned Blade, Wht, FC-5000 REQ’D</td>
</tr>
<tr>
<td>121-040045-02</td>
<td>AT-5000 Antenna 29.7-960 MHz, 5.5” Tuned Blade, Blk, FC-5000 REQ’D</td>
</tr>
<tr>
<td>146-014959-01</td>
<td>Gasket, AT-50</td>
</tr>
<tr>
<td>146-014960-01</td>
<td>Gasket, AT-51</td>
</tr>
<tr>
<td>146-016958-01</td>
<td>Gasket, AT-400</td>
</tr>
<tr>
<td>153-016586-01</td>
<td>FC-50 Logic Converter (AT-50/51)</td>
</tr>
<tr>
<td>153-040047-01</td>
<td>FC-5000 Antenna Tuner, AT-560 or AT-5000</td>
</tr>
</tbody>
</table>
Figure 32. **AT-5000 Antenna, Low Profile Tunable**

Portions of Dwg No. 121-040045
(FC-5000 Tuner Required)
Figure 33. AT-560 Antenna Wideband Tuned Blade Portions of Dwg No. 121-040130 (FC-5000 Tuner Required)
Figure 34. FC-5000 Antenna Tuner
Portions of Dwg No. 153-040047

Note: This tuner is used with the AT-560 and AT-5000 antennas
Figure 35. AT-160 Antenna Wideband Passive Blade

NOTES:
1. (WARNING, PERFORMANCE IS MARGINAL BELOW 50 MHz. FOR IMPROVED PERFORMANCE IN THE 30 – 50 MHz REGION, SEE THE AT-550 OR AT-5000 ANTENNA.)

2. SPECIFICATIONS:
   2.1 ELECTRICAL
   2.1.1 FREQUENCY RANGE: LOW SPLIT: 29.7 – 400 MHz
                             HIGH SPLIT: 400 – 960 MHz
   2.1.2 IMPEDANCE: 50 OHMS
   2.1.3 VSWR: 2.5:1 MAX
   2.1.4 RF POWER: LOW SPLIT 25W DSBAM
                   HIGH SPLIT: 25W CW
   2.1.5 POLARIZATION: VERTICAL
   2.1.6 RADIATION PATTERN: OMNIDIRECTIONAL IN AZIMUTH
   2.1.7 SPEC. GAIN: 30 MHz: -21 dBi
                     60 MHz: -21 dBi
                     960 MHz: -12 dBi
   2.1.8 HORIZ. MIN: 108-174 MHz: -3 dBi AV
                     225-960 MHz: 0.0 dB AV
   2.2 MECHANICAL:
   2.2.1 WEIGHT: 2.7LBS (1.22kg) MAX
   2.2.2 FINISH: EPOXY PAINT GLOSS PER DEF. STAN. 80-161;
                 WHITE (-01); BLACK (-02)
   2.3 ENVIRONMENTAL, DESIGNED TO MEET:
   2.3.1 TEMPERATURE: -55°C TO +70°C
   2.3.2 VIBRATION: MIL-F-5400, CURVE III
   2.3.3 ALTITUDE: 40,000 FT
   2.3.4 SHOCK: MIL-STD-810E, METH.516.4;
                 PROC. (200,11ms)
   2.3.5 CSD: COMPASS SAFE DISTANCE IS LESS THAN 12 INCHES.
Tactical Communication Products: AT-35 Antenna

Figure 36. AT-35 Antenna Assembly
Portions of Dwg No. 121-014235
NOTES:
1. COLOR: WHITE
2. WEIGHT: 8—OUNCES (0.23KG) MAXIMUM.
3. FREQUENCY: 137—174MHz
4. VSWR: 3.0:1 MAX
5. POWER: 50 WATTS
6. PATTERNS: OMNI—DIRECTIONAL IN AZIMUTH
7. DESIGNED TO MEET THE REQUIREMENTS OF TSO C37b AND C38b
8. APPROVED VENDORS:
   a. REMOVED
   b. COMANT INDUSTRIES CI—177—2
   GASKET P/N: B12607
9. PART TO BE LABELED ON BASE WITH THE FOLLOWING:
   a. W.E.D. P/N: 121—0019—000
   b. SERIAL NUMBER (SUPPLIED BY VENDOR)
10. CONFIGURATION OF ANTENNA MAY VARY

Figure 37. AT-695 VHF Com Antenna
Portions of Dwg No. 121—0019—000
Tactical Communication Products: AT-462 Antenna

Figure 38. AT-462 Antenna, Wideband
Portions of Dwg No. 121-014378
Tactical Communication Products: AT-399B Whip Antenna

Figure 39. AT-399B Antenna, Wideband Whip Portions of Dwg No. 121-040089