

## 4.1 Antenna Configurations

RTI repeaters can use any one of four basic antenna configurations:

- Donor antenna, and one dual-polarized subscriber antenna (see Figure 4-2)
- Donor antenna, and two vertically-polarized subscriber antennas (see Figure 4-3)
- Donor antenna, and two dual-polarized subscriber antennas (one for main-beam and one for back-beam, see Figure 4-4)
- Donor antenna, and one vertically-polarized subscriber antenna (see Figure 4-5)

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**NOTE:** Repeater Technologies does not provide antennas with the repeater. These may be ordered separately for use at the time of installation. Typical antennas are described in section 11.2.

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**NOTE:** Antennas are to be fixed mounted on outdoor permanent structures or antenna tower. It is the responsibility of the operator of the station to ensure that the RF exposure requirements are met for a particular installation including accounting for any co-located antennas.

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**NOTE:** When included in a CDMA network, an RTI repeater can use a back-beam antenna, to transmit energy from the repeater, back towards the donor base station. A back-beam antenna increases the allowable distance between the donor BTS and the repeater site.

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