

9. Antenna info

The 4120R can be used for both fixed and mobile applications, but is not portable.

This submittal includes the use of antennas with 8.5 dB gain or less. The standard antenna is the 8.5 dB gain antenna from Arc Wireless. All systems are installed by professional installers with output power measurements at the antenna input as appropriate. The table of allowable powers and the minimum safe distance to 1 mw/cm² and is included in all sales.

For mobile applications, the nominal 36dBm EIRP computed as the sum of the power out minus a minimal loss(1db) due to coax cables and connectors plus the gain of the antenna as specified by the manufacturer. The recommended measurement approach for determining power to the antenna is to use a power meter at the antenna input. MSAssist software provides the functionality required for this measurement and is supplied to all customers.

The following table lists the antenna, power, and margin for mobile applications.

| Mfg | Part # | Type | Gain | Power at antenna | Total Margin | |
|-------------|---------------|-------|------|------------------|--------------|--|
| Cushcraft | S2406P | Patch | 6 | 27 | 3 | |
| H+S | SPA/70/9/0/cp | Patch | 6 | 27 | 3 | |
| ArcWireless | AAI-00091 | Patch | 8.5 | 27 | 0.5 | |
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As of November 2004, all installations will conform to the output power limits for mobile applications.