

# Spire<sup>®</sup> Antenna



WIRELESS NETWORK PRODUCTS



*Available in high and medium gain configurations to provide coverage where coverage is needed.*

*Improved coverage pattern affords superior performance.*

*Increases wireless coverage by 25-50% resulting in fewer access points required.*

*Radome available for use in extreme environments - both indoors and out.*

## LXE is YOUR WIRELESS NETWORK CONNECTION.

### Increased coverage, superior performance

Based on technology originally designed for space applications, this omnidirectional antenna increases coverage, performance, and reliability of 2.4GHz wireless LANs. The patented design provides improved horizontal and vertical coverage patterns resulting in a larger footprint, improved throughput, and superior performance in multipath environments.

### Cost effective

Spire installations require fewer access points. Fewer access points reduce power, data cabling requirements and maintenance and management resources.

With coverage increases of 25-50%, compared to other omni antennas of similar gain, the Spire Antenna makes 2.4GHz technology a viable option for many more applications, such as ports, warehouses, and large distribution centers.

*And the Spire Antenna is supported by LXE's award winning support team, winners of the Mobile Star Award<sup>™</sup> for best customer service five years in a row.*



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# Spire Antenna

## Technical Specifications



### Electrical Characteristics

- Frequency  
2.4 to 2.5GHz
- Impedance  
50 ohms
- VSWR  
1.5 : 1
- Polarization  
Vertical
- High gain version  
Gain - 6 dBi typical  
Beamwidth - 35° typical
- Medium gain version  
Gain - 3 dBi typical  
Beamwidth - 40° typical
- Pattern  
Omni-directional

### Mechanical Characteristics

- Height  
High gain w/o radome - 6"  
Medium gain w/o radome - 3"  
Radome - 6.2"
- Weight  
No radome or bracket - .10 lbs.  
With radome and bracket - 2.1 lbs.
- Radome material  
Royalite R450M
- Radios supported  
2.4GHz FHSS  
2.4GHz DSSS
- Connector  
Reverse TNC
- Temperature  
-40°C to 70°C
- Mounting options  
Ceiling enclosure  
Masts

### Model Numbers

- Industrial Spire (Includes Radome)  
3dBi: 6000A283ANT3INDSPR  
6dBi: 6000A282ANT6INDSPR
- Commercial Spire (No Radome)  
3dBi, 5" cable:  
6000A279ANT3SPIRER  
3dBi, 50" cable:  
6000A280ANT3SPIRER  
6dBi, 5" cable:  
6000A277ANT6SPIRER  
6dBi, 50" cable:  
6000A278ANT6SPIRER

### Approvals

- RoHS compliant version available

Configuration	Vertical Beamwidth	Down Tilt	Antenna Length
High gain on ground plane	25°	25°	6"
Medium gain on ground plane	28°	12°	3"
High gain off ground plane	35°	35°	6"
Medium gain off ground plane	40°	5°	3"

