

# 8.5dBi Panel Antenna

Ascendent ID offers a full range of RFID solutions with specific market focus on vehicle access control (AVI), yard management, toll roads, load tracking, and commercial fueling. For more information about how Ascendent ID's RFID technology can benefit your business, visit our web site at [www.ascendentid.com](http://www.ascendentid.com)

## Features

- Durable, UV stabilized ABS with rugged design for outdoor use
- Integral mounting holes
- Small footprint and low profile for unobtrusive installations
- Very low wind load rating
- Multiple mounting kits available
- Made in the U.S.A.

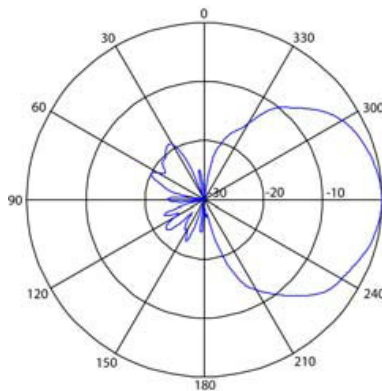
### Mechanical and Environmental Specifications

Length x Width x Depth	5.2in x 5.2in x 0.8in (131mm x 131mm x 20mm)
Weight	6 oz (156 g)
Backplane	UV stabilized ABS plastic
Radome	UV stabilized ABS plastic
Wind Survivability	125mph (201kph)
Wind Load	0.50ft <sup>2</sup> (0.05m <sup>2</sup> )
Operating Temperature	-49°F to +149°F (-45°C to +65°C)

### Electrical Specifications

Frequency Range	2.4-2.5GHz
Gain	8.5dBi
3dB Beamwidth	
Vertical/Horizontal	60deg/60deg
Polarization	Single linear, horizontal or vertical
VSWR	≤1.5:1 typ., ≤1.7:1 max.
Front-to-Back Ratio	>30 dB
Cross Polarization	>30 dB
Power Rating	30 watts
Impedance	50 ohms
Lighting Protection	DC ground
Connector	TNC Female

**RF Patterns  
Vertical Cut, typ.**



**RF Patterns  
Horizontal Cut, typ.**

