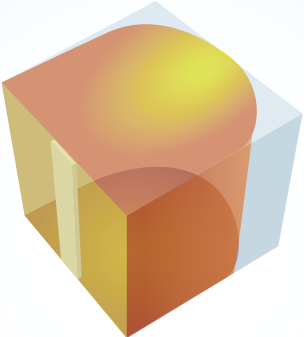
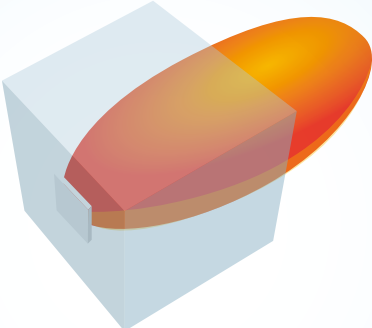


# Wave<sup>®</sup> Antenna

High performance RFID antenna for item-level tracking

**The Wave<sup>®</sup> Antenna** is the first and only antenna specifically designed to be used for item-level RFID solutions. Patch antennas radiate a single beam in a given direction, but the Wave<sup>®</sup> antenna uses multiple beams to read tags in any position (See the illustrations below). Wave<sup>®</sup> antennas are the only ones that use a three-dimensional read pattern to eliminate fading.



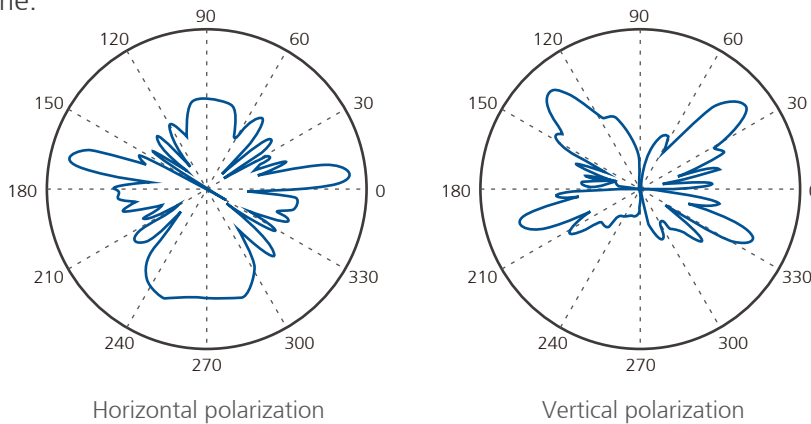
Wave <sup>®</sup> Antenna	vs.	Patch Antenna
		
<p><i>The Wave<sup>®</sup> creates a cylindrical illumination pattern like a fluorescent light.</i></p>		<p><i>Patches produce one main beam and behave like a flashlight, illuminating in a conical pattern well beyond an optimal RFID Zone.</i></p>

## Key Features

- **Accuracy** | A patented multi-beam illumination pattern delivers 99+% tag read rates within an optimal user-defined read zone while minimizing extraneous tag reads outside the zone.
- **Versatility** | Wave's numerous form factors enable the widest variety of RFID solutions: shelving, portals (any choke point), in-transit, embedded in numerous materials.
- **Efficiency** | Uses less hardware, easily installed with little adjustment (plug and play), wireless and can be retrofitted into existing fixtures. Delivers a positive ROI in months.

## Antenna Radiation Pattern

Wave® antennas are designed to uniformly illuminate a volume of space. When installed in pairs, the antennas complement each other and provide spatial, direction-of-arrival, and polarization diversities throughout the volume.



## Specifications

Part Number	RFID XRAB-N1	RFID XRAB-N2	RFID XRAB-N3
<b>Dimensions</b>	87 in × 9 in × 1.5 in 221 cm × 23 cm × 3.8 cm	61 in × 9 in × 1.5 in 155 cm × 23 cm × 3.8 cm	36 in × 9 in × 1.5 in 91 cm × 23 cm × 3.8 cm
<b>Weight</b>	4 lb (1.8 kg)	3 lbs (1.4 kg)	1.7 lbs (0.8 kg)
<b>Ambient operating temperature</b>	-4 °F to 140 °F (-20 °C to 60 °C)	-4 °F to 140 °F (-20 °C to 60 °C)	-4 °F to 140 °F (-20 °C to 60 °C)
<b>Frequency range</b>	902 MHz–928 MHz	902 MHz–928 MHz	902 MHz–928 MHz
<b>User-defined zone coverage range</b>	2 ft × 2 ft × 2 ft to 10 ft × 10 ft × 10 ft	2 ft × 2 ft × 2 ft to 10 ft × 10 ft × 10 ft	2 ft × 2 ft × 2 ft to 10 ft × 10 ft × 10 ft
<b>Gain</b>	5.5 dBi	4.5 dBi	3.0 dBi
<b>Impedance</b>	50 Ω	50 Ω	50 Ω
<b>VSWR</b>	Less than 1.7 : 1	Less than 1.7 : 1	Less than 1.7 : 1
<b>Polarization</b>	Multi-linear	Multi-linear	Multi-linear
<b>Maximum input power</b>	10 W	10 W	10 W
<b>Beamwidth</b>	360°	360°	360°
<b>Connector</b>	TNC reverse polarity	TNC reverse polarity	TNC reverse polarity
<b>Supplied cable and length</b>	None	None	None
<b>Optional cables and optional adapters</b>	As required	As required	As required