

# WAVE<sup>®</sup> Cube

High-performance asset tracking solution

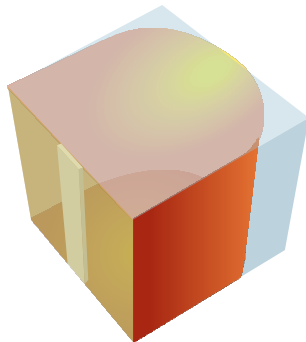
The WAVE<sup>®</sup> Cube is equipped with two WAVE<sup>®</sup> antennas, creating a uniform read zone that ensures read accuracy in high-density tag environments. With this solution, fast inventory checks and automated checkout are made possible, significantly enhancing efficiency in retail and warehousing environments.



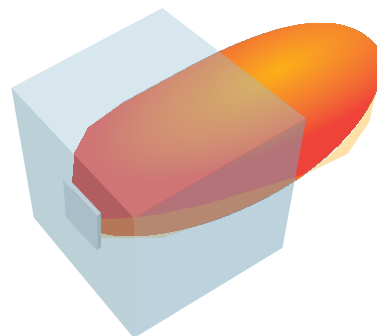
WAVE<sup>®</sup> Antenna

vs.

Patch Antenna



A WAVE<sup>®</sup> antenna creates a cylindrical radiation pattern like a fluorescent tube.



A patch antenna produces one main beam and behaves like a flashlight, radiating in a conical pattern well beyond the optimal RFID zone.

## Key Features .....

### **Versatility**

The WAVE<sup>®</sup> Cube can read large amounts of tags simultaneously and is easy to operate, making it suitable for applications such as self-checkout, warehouse inventory control, and asset management.

### **Accuracy**

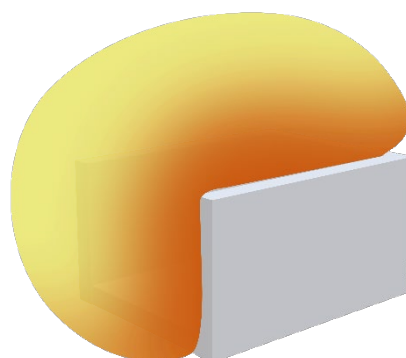
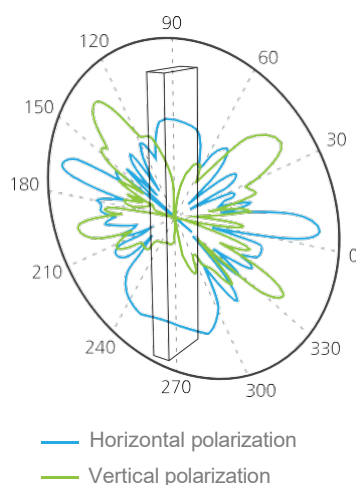
The WAVE<sup>®</sup> antennas in this solution have a patented multi-beam illumination pattern that delivers 99+% tag read rates within an optimal user-defined read zone while minimizing extraneous tag reads from outside the zone.

### **Efficiency**

This is a plug-and-play system that can be easily installed in a wide variety of locations with minimal adjustment, helping businesses improve the efficiency and accuracy of inventory management and related operations.

## 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.



WAVE® Cube 3D Pattern



### Specifications

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Model Name                           | XRBS-M3-SC                                        |
| Dimensions                           | Interior: 37.6 cm (L) × 52.2 cm (D) × 28.1 cm (H) |
| Main unit only                       | Exterior: 51.8 cm (L) × 58.8 cm (D) × 38.6 cm (H) |
| Optional right-side distribution box | Exterior: 63.8 cm (L) × 58.8 cm (D) × 38.6 cm (H) |
| Optional rear distribution box       | Exterior: 51.8 cm (L) × 70.8 cm (D) × 38.6 cm (H) |
| Housing Material                     | Acrylic and SPCC                                  |
| Weight (Main unit only)              | 15.5 kg                                           |
| Antenna Ports                        | 2                                                 |
| Ambient Operating Temperature        | −20 °C to 60 °C (−4 °F to 140 °F)                 |
| Frequency Range                      | 902 MHz–928 MHz                                   |
| Gain                                 | 5.5 dBi                                           |
| Impedance                            | 50 Ω                                              |
| Polarization                         | Multi-linear                                      |
| Maximum Input Power                  | 10 W                                              |
| Beamwidth                            | 360°                                              |
| Connector                            | TNC reverse polarity                              |



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